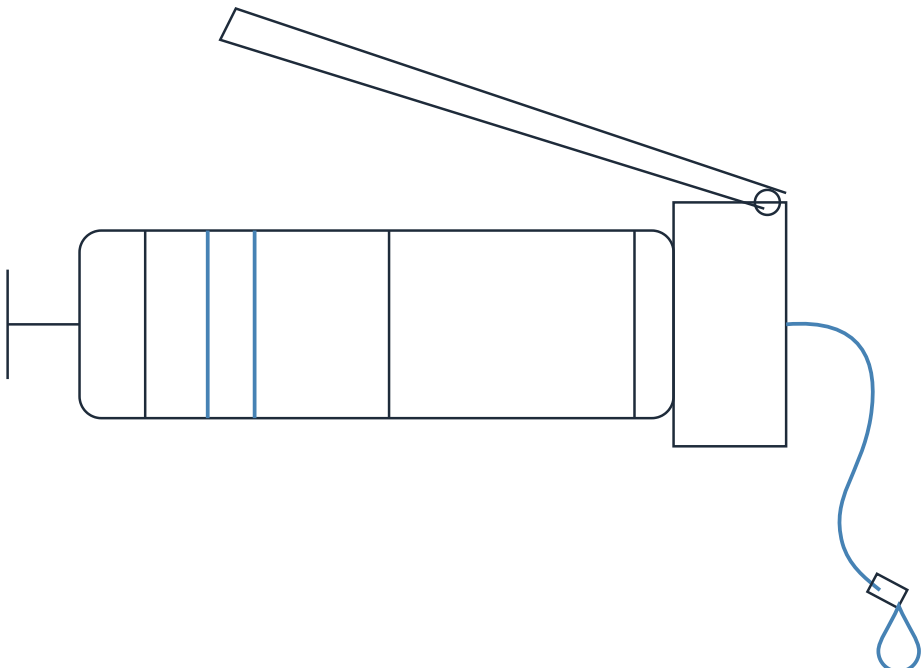


FUCHS

Industrial Lubricants 2026

کاتالوگ روانکارهای صنعتی و گریس FUCHS

استعلام قیمت و خرید گریس FUCHS ←

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Product Program
Industrial Lubricants

2026

MOVING YOUR WORLD

LUBRICANTS.
TECHNOLOGY.
PEOPLE.
FUCHS



FUCHS LUBRICANTS GERMANY

We don't just develop lubricants. For highly complex challenges in a wide range of industries, we develop innovative lubricant solutions that enable the mobility of tomorrow. Our goal: to keep our customers' world in motion. Efficient, sustainable, reliable. Today and tomorrow.

What can we move for you?



FUCHS LUBRICANTS GERMANY

Facts and figures

Company: FUCHS LUBRICANTS GERMANY GmbH, a company of the FUCHS Group
Locations: Mannheim, Kaiserslautern, Kiel and Wedel; approx. 1,400 employees
Product range: A full range of more than 3,000 products for all application areas
Certifications i. a.: ISO 9001, IATF 16949, ISO 14001, ISO 45001, ISO 50001, ISO 21469, HALAL, KOSHER (detailed certifications at www.fuchs.com/de/en)

FUCHS LUBRICANTS GERMANY is a subsidiary of FUCHS SE, the world's largest independent supplier of lubricant solutions. Around 1,400 specialists at all sites work with dedication on innovative lubricant solutions that enable the mobility of tomorrow.

The high level of technical consulting expertise combined with the largest, nationwide network of its own technical contacts makes FUCHS LUBRICANTS GERMANY a reliable local partner. A comprehensive product range, supplemented by digital offerings and Smart Services, as well as many years of lubricant expertise and a high level of research competence are the foundations for the innovative FUCHS lubricant solutions. They reduce wear and energy requirements, extend the running times and service life of machines, and thus keep the world moving - from industrial motors and e-cars to wind turbines and washing machines. FUCHS LUBRICANTS GERMANY is certified to a wide range of standards and, as a technology leader and development partner, places the highest demands on quality management.

Customers in all fields of application and key industries benefit from this commitment to quality. FUCHS makes a significant contribution to promoting sustainability with its climate neutrality strategy. Not only are lubricants manufactured using CO_2-compensated production, but the entire value chain is also considered from a sustainability perspective and is being gradually transformed with a view to a circular economy. FUCHS is also involved in research projects on sustainable raw materials and is working with suppliers and associations to develop certification standards.

MOVING YOUR WORLD

The World of Industrial Lubricants & Services

Industrial Oils

Many processes in the industry work perfectly only with specially tailored lubricant solutions. For example, in the transmission of energy by pressure media (**hydraulic fluids**), in the gearing of driving forces (**gear oils**), in the power generation in power plants (**turbine oils**), at refrigeration (**refrigeration oils**) or compressed air production (**air compressor oils**) the respective industrial oils have a significant task.
Rapidly biodegradable lubricants from FUCHS present a real alternative to hydrocarbon-based lubricants.

The range of industrial oils from FUCHS offers a whole host of high-performance product solutions for the most diverse of applications and target groups.
In addition, FUCHS industrial oils can make a significant contribution to an improved productivity, can increase efficiency significantly and reduce energy consumption and associated CO_2 emissions.

Lubricating Greases / Pastes

Lubricating greases are consistent lubricants made up of base oil and a specially chosen thickener. To increase certain properties, additives are added to the lubricating greases. Lubricating greases are structural elements, especially when used as long-life lubricants for lifetime lubrication.

Pastes are consistent lubricants, which contain special solid lubricants to optimise their lubrication performance. It is precisely in the marginal areas of grease lubrication where grease pastes exhibit their exceptional efficiency, e.g. with high loads or rapidly changing directions of movement. They reduce friction and protect against wear.

The balanced and complete product range of FUCHS lubricating greases offers you the ideal technical and economical solutions for the greatest possible number of lubricating grease applications.

Special Application Lubricants

The product range of FUCHS includes lubricants and release agents for highly specialized applications. These lubricants are always used where the performance of conventional lubricants for the special application reaches its limits. They are marked with FUCHS Special Applications.

FUCHS Special Applications

FUCHS develops highly specialized lubricants and related specialties in close cooperation with customers in order to offer tailor-made solutions. This has resulted in a very broad portfolio over the last decades that is characterized by its performance - even under extreme conditions.

Furthermore, special application lubricants from FUCHS stand for sustainability as well as for safety, reliability and economy.

FUCHS Smart Services

Experience the power of FUCHS Smart Services – your gateway to a service program that goes far beyond product solutions.

Our dedicated, highly skilled teams bring FUCHS expertise directly to your operations, delivering solutions that make a real impact. With this concentrated know-how, you gain more than just maximum performance from your lubricants – you unlock streamlined processes, enhanced equipment reliability, and a strong commitment to sustainability.

Our promise: Your processes run smarter, safer, and more resource-efficient – today and for the future.

Metal Processing Lubricants

Modern metal processing lubricants are subjected to a variety of demands. They must be both economical and efficient, and free of ingredients that are harmful to the environment and human health.

FUCHS has the necessary process expertise to optimally meet the very specific and diverse requirements in metal processing. The comprehensive and high-performance lubricant range from FUCHS is characterized by outstanding application results in all areas of metal processing – from **cutting fluids**, **quenching fluids** and **forming lubricants** to **cleaners** and **corrosion preventives**.

Within the DMQP Program FUCHS supplies as a certified DMQP partner at DMG MORI cutting fluids and lubricants that have been exclusively tailored to machines and processes.

DMG MORI QUALIFIED PRODUCTS

The DMQP program generates synergies out of machines, peripheries and accessories with the very highest quality standards. It combines innovation and technology expertise from selected DMQP partners, who have been exclusively awarded the premium seal of quality for their products.



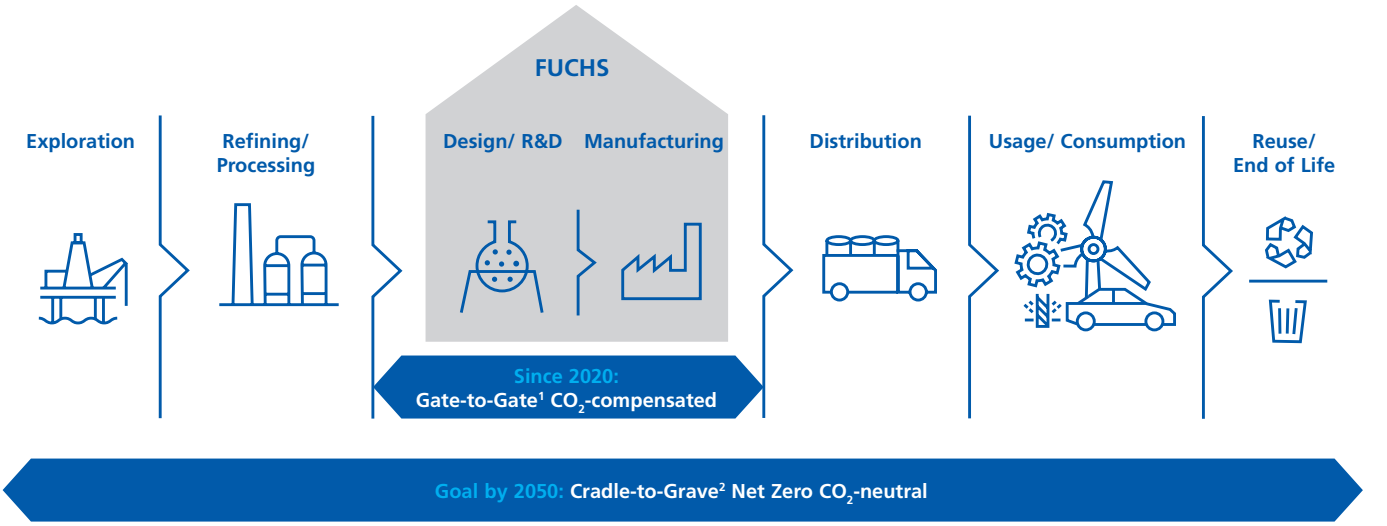
EU Ecolabel www.ecolabel.eu

FUCHS has one of the world's most diverse portfolio of bio-lubricants. Many of our bio-degradable products carry the European environmental label (Euro-Marguerite).
New series of biodegradable hydraulic and gear oils were developed within the PLANTO range on the basis of saturated ester. The proportion of renewable raw materials is greater than 50% here.

ACTIVE PLAYER FOR SUSTAINABILITY – The path to 2050

The FUCHS carbon-neutrality strategy is embedded in our sustainability strategy, which began in 2010 when we signed the „Code of Responsible Conduct for Business". In 2018 we joined the „Alliance for Development and Climate" led by the Federal Ministry for Economic Cooperation and Development.

FUCHS actively contributes to the Joint Sustainability Committee of ATEIL and UEIL and chairs it. Together, we develop harmonized sustainability standards, KPIs, and benchmarks to enable sustainability-based comparisons.



[1] Gate-to-Gate Scope includes GHG-Protocol Scope 1, 2 and selected Scope 3 emissions (water, waste, business travel, commuting) for all affiliates and JVs incl. compensation.
[2] Cradle-to-Grave Scope includes GHG-Protocol Scope 1, 2 and applicable Scope 3 emissions (3.1/2/3/4/5/6/7/12) for all subsidiaries and JVs.

Would you like more information about how FUCHS approaches sustainability and answers to the following questions:

- How we calculate and offset our emissions (corporate carbon footprint) directly attributable to our business activities
- What is important when calculating a product carbon footprint (PCF) and how we calculate it
- What our reduction targets and action plans for our greenhouse gas emissions look like
- How we are constantly promoting responsible energy production and use
- And how we enable our customers to perform more sustainably

Then use the QR code to find out more about our path to climate neutrality and our sustainability milestones in recent years.

TIME TO ACT

Renewable, bio-based, recycled – on the way to a circular economy

Advanced Circular Technologies

ACT, Advanced Circular Technologies, answers the challenge to transform our value chain from linear to circular - without compromising on performance!

ACT sums up everything we do for this transformation process: starting with raw materials to the application of our lubricant solutions and up to recycling at the end of the life cycle.

TIME TO ACT: we gradually replace finite raw materials with renewable, bio-based or recycled ones. This also applies to our packs. As of 2024, our FUCHS small packs are made of 100% recycled materials.

Sustainability meets performance

Selected products now based on ACT

- Selected FUCHS oils based on ACT product technologies now get a sustainability upgrade
- Your benefit: smaller Product Carbon Footprint and more sustainability as an add-on to the well-known outstanding FUCHS quality and performance
- ACT is driven by meticulous research and development, adding technical to environmental value



24 h

Ordering has never been so easy and fast.



With the FUCHS-Onlineshop.

Orders, availability
and all details
at a glance.



Lubricants and accessories for businesses. Available around the clock.

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INDUSTRIAL OILS

Many processes in the industry work perfectly only with specially tailored lubricant solutions.

For example, in the transmission of energy by pressure media (hydraulic fluids), in the gearing of driving forces (gear oils), in the power generation in power plants (turbine oils), at refrigeration (refrigeration oils) or compressed air production (air compressor oils) the respective industrial oils have a significant task.

In addition, FUCHS industrial lubricants can make a significant contribution to a improved productivity in many other applications. They can increase efficiency significantly and reduce energy consumption and associated CO_2 emissions.

Low Varnish turbine oils e.g. ensure trouble-free operation of power plants. Refrigeration oils adjusted to environmentally neutral refrigerants improve the environmental balance in the cold chain. Rapidly biodegradable lubricants are a powerful alternative to hydrocarbon-based lubricants.



Industrial Oils

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Industrial Oils



Product name	Description	Density at 15 °C kg/m³	Flash point Clev. °C	Kin. visc. at 40 °C mm²/s	Kin. visc. at 100 °C mm²/s	VI	Pour-point °C	Main application area
Demulsifying Circulating, Spindle and Hydraulic Oils: HL / CL								
RENOLIN DTA 2	**Range RENOLIN DTA** Hydraulic and lubrication oils based on selected mineral base oils with additives to improve ageing stability and corrosion protection. All RENOLIN DTA products are DIN 51524-1: HL hydraulic oils and DIN 51517-2: CL circulating oils based on mineral oil, demulsifying (water-separation), zinc-free. Fulfill and surpass the minimum requirements acc. to: DIN 51524-1: HL DIN 51517-2: CL ISO 6743-4: HL, ISO 6743-6 and ISO 12925-1: CKB.	805	100*	2.2	–	–	-27	For thermally-stressed bearings, gears and hydraulic systems with peak temperatures up to 120 °C. Lubrication oils without AW/EP additives. Also suitable for hydrodynamic drives if HL or CL lubrication fluids are required. VOITH Turbo couplings type T and S. Suitable for Landis Lund machine tools, recommended for spindle lubrication (without AW/EP). Demulsifying type
RENOLIN DTA 5		830	120	4.6	1.6	106	-40	
RENOLIN DTA 10		849	174	10	2.6	92	-27	
RENOLIN DTA 22		865	210	22	4.2	94	-27	
RENOLIN DTA 32		874	222	32	5.4	102	-24	
RENOLIN DTA 46		874	228	46	6.8	101	-24	
RENOLIN DTA 68		882	250	68	8.7	99	-18	

* Measured acc. to Pensky Martens (Flashpoint P.M.)

RENOLIN

Product name	Description	Density at 15 °C kg/m³	Flash point Clev. °C	Kin. visc. at 40 °C mm²/s	Kin. visc. at 100 °C mm²/s	VI	Pour-point °C	Main application area
Demulsifying Circulating, Spindle and Hydraulic Oils: HL / CL								
RENOLIN DTA 100	**Range RENOLIN DTA** Hydraulic and lubrication oils based on selected mineral base oils with additives to improve ageing stability and corrosion protection. All RENOLIN DTA products are DIN 51524-1: HL hydraulic oils and DIN 51517-2: CL circulating oils based on mineral oil, demulsifying (water-separation), zinc-free. Fulfill and surpass the minimum requirements acc. to: DIN 51524-1: HL DIN 51517-2: CL ISO 6743-4: HL, ISO 6743-6 and ISO 12925-1: CKB.	881	248	100	11.2	97	-18	For thermally-stressed bearings, gears and hydraulic systems with peak temperatures up to 120 °C. Lubrication oils without AW/EP additives. Also suitable for hydrodynamic drives if HL or CL lubrication fluids are required. VOITH Turbo couplings type T and S. Suitable for Landis Lund machine tools, recommended for spindle lubrication (without AW/EP). Demulsifying type
RENOLIN DTA 150		889	266	150	15.5	94	-15	
RENOLIN DTA 220		893	280	220	18.8	95	-12	
RENOLIN DTA 320		898	280	320	24.0	95	-12	

* Measured acc. to Pensky Martens (Flashpoint P.M.)

= 20 L (Canister), = 205 L (Drum), = 1000 L (IBC), = Tank Truck

Industrial Oils

Product name	Description	Density at 15 °C kg/m³	Flash point Clev. °C	Kin. visc. at 40 °C mm²/s	Kin. visc. at 100 °C mm²/s	VI	Pour-point °C	Main application area
Zinc-containing Hydraulic Oils								
RENOLIN B 3	**Range RENOLIN B** Lubrication and hydraulic oils with additives to improve the ageing and oxidation stability. Good wear protection, demulsifying (good water seperation), good air release properties, zinc-containing AW/EP additive system. The RENOLIN B range meets and surpasses the minimum requirements of hydraulic oils acc. to DIN 51524-2: HLP ISO 6743-4: HM B 3: HLP 10 B 5: HLP 22 B 10: HLP 32 B 15: HLP 46 B 20: HLP 68 B 30: HLP 100	850	178	10	2.6	95	-42	Universal applicable hydraulic fluids if good ageing resistance, good wear protection and demulsifying properties are required. Universal hydraulic fluids; synergistic acting and robust additives ensure good wear protection in stationary and mobile hydraulic systems, even at high load and high temperature. Approvals: Denison HF0, HF1, HF2 Demulsifying type
RENOLIN B 5		863	200	22	4.4	107	-27	
RENOLIN B 10		876	205	32	5.5	109	-24	
RENOLIN B 15		875	210	46	6.9	105	-24	
RENOLIN B 20		881	224	68	8.8	100	-24	
RENOLIN B 30		883	232	100	11.1	96	-18	
RENOLIN B 5 VG 22-LCF Advanced Circular Technologies	**Range RENOLIN B-LCF** Zinc containing, demulsifying hydraulic oils, based on sustainable base oils from circular economy. The CO_2 footprint is reduced by up to 70% compared to conventional base oils. Modern, zinc based AW / EP additives guarantee highest performance level. Requirements acc. to DIN 51524-2: HLP are clearly exceeded. The ACT product technology (Advanced Circular Technology) is based on sustainable base oils. Fulfill and surpass: DIN 51524-2: HLP ISO 6743-4: HM	845	236	22	4.5	118	-39	High quality HLP hydraulic oil for use in presses, machine tools or other hydraulic systems. Suitable to be used in stanionary and mobile equipment, when robust, demulsifying, zinc containing hydraulic oil is required. Reduction of the CO_2 footprint through the use of sustainable base oils. Energy savings are possible due to the high efficiency of the hydraulic system.
RENOLIN B 10 VG 32-LCF Advanced Circular Technologies		849	248	32	5.8	125	-33	
RENOLIN B 15 VG 46-LCF Advanced Circular Technologies		862	248	46	7.2	115	-30	

RENOLIN

Product name	Description	Density at 15 °C kg/m³	Flash point Clev. °C	Kin. visc. at 40 °C mm²/s	Kin. visc. at 100 °C mm²/s	VI	Pour-point °C	Main application area
Zinc-containing Hydraulic Oils								
RENOLIN B 10 PLUS (on request)	**Range RENOLIN B PLUS** Lubrication an hydraulic oils, based on high-quality, hydrated base oils (Group II). Contains additives for excellent ageing and oxidation stability, the zinc-containing AW/EP additive system protects against wear at high pressure and load. Extended oil drain intervals are possible. Hydraulic oils according to DIN 51524-2: HLP and ISO 6743-4: HM.	840	170	10	2.7	104	-54	Suitable for all hydraulic systems especially if an approval according to Bosch Rexroth RDE 90235/ RDE 90245 is required. Group II base oil (Hydrogenated base oils), for HP-high-pressure application. Demulsifying type Approvals: Denison HF0, HF1, HF2 Bosch Rexroth RDE 90245
RENOLIN B 15 PLUS (on request)		840	195	15	3.5	108	-48	
RENOLIN B 22 PLUS		845	220	22	4.4	108	-45	
RENOLIN B 32 PLUS		862	220	32	5.5	108	-39	
RENOLIN B 46 PLUS (60 L, 205 L)		865	230	46	6.94	107	-36	
RENOLIN B 68 PLUS		867	230	68	9.0	108	-33	
RENOLIN B 100 PLUS (on request)		870	270	100	11.6	104	-33	
RENOLIN B 150 PLUS (on request)		880	280	150	15.1	101	-18	

= 20 L (Canister), = 205 L (Drum), = 1000 L (IBC), = Tank Truck

Industrial Oils

Product name	Description	Density at 15 °C kg/m³	Flash point Clev. °C	Kin. visc. at 40 °C mm²/s	Kin. visc. at 100 °C mm²/s	VI	Pour-point °C	Main application area
Zinc-containing Hydraulic Oils								
RENOLIN B 15 HVI	**Range RENOLIN B HVI** Hydraulic and lubricating oils (machine oils) with a high viscosity index and additives to improve ageing stability, corrosion protection and wear protection. The products of the RENOLIN B HVI range are HVLP hydraulic and circulating oils according to DIN 51524-3, mineral oil based, demulsifying and zinc-containing AW/EP additives. DIN 51524-3: HVLP ISO 6743-4: HV ISO 11158: HV Denison HF0, HF1, HF2	859	180	15	3.8	151	-45	RENOLIN B HVI oils are suitable for all hydraulic systems, especially when a high viscosity index is required, reduced viscosity during cold start-up, high viscosity at operating temperature. High VI provides multigrade characteristics. Energy saving through high volumetric efficiency. Demulsifying type Approval: Denison HF0, HF1, HF2
RENOLIN B 32 HVI		871	178	32	6.3	152	-48	
RENOLIN B 46 HVI		879	186	46	8.1	150	-45	
RENOLIN B 68 HVI		868	240	68	11.0	154	-36	
RENOLIN B 10 HVI Plus	**Range RENOLIN B HVI Plus** Hydraulic and lubricating oils based on hiqhquality hydrated base oils (Group II). High viscosity index and excellent shear stability, in combination with extraordinaire oxidation stability, effects in long lifetime. High wear protection by using zinc-containing AW/EP additives, demulsifying. DIN 51524-3: HVLP ISO 6743-4: HV ISO 11158: HV Denison HF0, HF1, HF2	837	170	10	3.0	171	-63	RENOLIN B HVI Plus oils are suitable for all stationary and mobile hydraulic systems when a high viscosity index and low cold-temperature viscosity is required. Extended oil change interval possible. High pressure applications are possible due to excellent AW/EP additive system. Approval: Denison HF0, HF1, HF2 Bosch Rexroth RDE 90245
RENOLIN B 15 HVI Plus		844	190	15	3.8	148	-57	
RENOLIN B 22 HVI Plus		845	210	22	4.9	152	-48	
RENOLIN B 32 HVI Plus		846	230	32	6.3	151	-42	
RENOLIN B 46 HVI Plus (60 L, 205 L)		856	240	46	8.2	152	-42	
RENOLIN B 68 HVI Plus		854	260	66,5	10.8	153	-33	
RENOLIN B 100 HVI Plus		867	260	102	14.0	140	-36	
RENOLIN B 150 HVI Plus (on request)		876	260	151	18.0	132	-33	

RENOLIN

Product name	Description	Density at 15 °C kg/m³	Flash point Clev. °C	Kin. visc. at 40 °C mm²/s	Kin. visc. at 100 °C mm²/s	VI	Pour-point °C	Main application area
Zinc-containing Hydraulic Oils								
RENOLIN D 22 HVI PLUS	**Range RENOLIN D HVI Plus** Detergant multigrade hydraulic oils based on highquality hydrated base oils (Group II). Zinc-containing AW/EP additive system offers excellent wear protection. Good shear-stability, excellent oxidation stability and additives to improve ageing resistance offer long lifetime. DIN 51524-3: HVLPD ISO 6743-4: HV (with DD properties)	847	210	22	4.9	150	-48	RENOLIN D HVI Plus can be used in stationary and mobile hydraulic equipment like machine tools or excavators. The high viscosity index and good cold-temperature behaviour offers advantages at changing environmental conditions. Hydraulic fluid with good DD-properties
RENOLIN D 32 HVI PLUS (on request)		850	230	32	6.3	150	-42	
RENOLIN D 46 HVI PLUS		858	238	46	8.2	150	-42	
RENOLIN D 68 HVI PLUS		858	254	68	10.7	145	-39	
RENOLIN Xtreme Temp 32	**Range RENOLIN Xtreme Temp** Universal, high-performance hydraulic oils with high viscosity index and excellent shear stability (VI ≥ 180). Based on special hydrogenated base oils, very good ageing behaviour, long lifetime, excellent corrosion protection and very good zinc-containing wear protection for high pressure - good demulsifying properties. Fulfill and surpass: DIN 51524-3: HVLP ISO 6743-4: HV ISO 11158: HV	845	216	32	6.9	180	-45	Universal high-performance multigrade hydraulic oils for stationary and mobile hydraulic systems, improved efficiency, increasing oil change intervals. Multigrade characteristics through high, shear-stable viscosity index. Energy and fuel saving through high volumetric efficiency. Approvals: Denison HF0, HF1, HF2 Bosch Rexroth RD90235 and RDE90245
RENOLIN Xtreme Temp 46		853	230	48	9.3	180	-42	
RENOLIN Xtreme Temp 32 PLUS	**Range RENOLIN Xtreme Temp PLUS** As RENOLIN Xtreme Temp, but with additives which help to avoid stick-slip phenomena. For high-pressure applications; reduce friction especially in mixed friction conditions. DIN 51524-3: HVLP(D) ISO 6743-4: HV ISO 11158: HV	861	216	32	6.9	183	-33	Slightly detergent, HVLP (D) high performance multigrade hydraulic oils for stationary and mobile hydraulic systems surpass HVLPD according to DIN 51524-3, wide temperature window, excellent shear stability. Help to avoid stick-slip problems, especially at low speed and high load. Energy and fuel saving through high volumetric efficiency.
RENOLIN Xtreme Temp 46 PLUS		855	234	48	9.3	181	-34	
RENOLIN LIFT 22	**Range RENOLIN LIFT** Special detergent type of hydraulic oils for elevators, hydraulic conveyors and fork lifters. Reliably prevents stick-slip, especially at high loads and low speeds. Fulfill and surpass requirements according to: DIN 51524-2: HLPD ISO 11158: HM ISO 6743-4: HM/HG	869	210	22	4.3	100	-30	Fork lifters, elevators, hydraulic transport mechanisms, stationary and mobile hydraulics. Protection against stick-slip.
RENOLIN LIFT 32		877	210	32	5.3	96	-30	
RENOLIN LIFT 46		881	210	46	6.8	101	-27	

= 20 L (Canister), = 205 L (Drum), = 1000 L (IBC), = Tank Truck

Industrial Oils

Product name	Description	Density at 15 °C kg/m³	Flash point Clev. °C	Kin. visc. at 40 °C mm²/s	Kin. visc. at 100 °C mm²/s	VI	Pour-point °C	Main application area
Zinc-containing Hydraulic Oils								
RENOLIN MR 0 VG 2	**Range RENOLIN MR** RENOLIN MR products are special HLPD lubricating and hydraulic fluids according to DIN 51502 with outstanding corrosion protection and powerful cleaning and dirt carrying capacity. Zinccontaining, detergent and dispersant. RENOLIN MR oils are used in many hydraulic systems as problem solvers, especially when standard oils cannot fulfill all requirements. Excellent oxidation stability based on highquality hydrated base oils (Group II). RENOLIN MR oils fulfill and surpass the requirements for hydraulic oils according to: DIN 51524-2: HLPD ISO 6743-4: HM with high DD-performance	823	75	2,2	–	–	-54	RENOLIN MR 0, 1 and 3: For machine tool spindles and roller bearing spindles in the textile industry.
RENOLIN MR 1 VG 5		834	135	4,6	1.7	–	-54	
RENOLIN MR 3 VG 10		840	170	10	2.7	106	-54	
RENOLIN MR 5 VG 22		846	210	22	4.5	118	-45	RENOLIN MR 5, 10, 15 and 20: Universal hydraulic oils with outstanding corrosion protection up to continuous temperatures of 100 °C. For smaller gear boxes, in particular with electrical multi-plate clutches. High DD performance
RENOLIN MR 10 VG 32		866	220	32	5.5	109	-39	
RENOLIN MR 15 VG 46		868	230	46	7.0	107	-36	
RENOLIN MR 20 VG 68		871	230	68	9.0	107	-33	
RENOLIN MR 30 VG 100		874	270	100	11.6	104	-33	RENOLIN MR 30, 40: For larger gear boxes. As run-in protection oil and anticorrosion oil. Allows oil changes to be extended.
RENOLIN MR 40 VG 150		881	280	150	15.1	101	-18	
RENOLIN MR 310	Hydraulic and lubricating oils with extremely high viscosity index as well as outstanding cleaning properties and sludge carrying capacity. HVLPD according to DIN 51502 together with DIN 51524-HVLPD ISO 6743-4: HV	855	118	15	5.4	360	-48	MR 310, 520 and 1030: For all hydraulic systems which are subject to a wide temperature range or which are operated outdoors, e.g. in flood gates, for machines in low temperature environments.
RENOLIN MR 520		886	154	32	8.0	270	-57	
RENOLIN MR 1030		873	214	68	11.0	154	-36	

RENOLIN

Product name	Description	Density at 15 °C kg/m³	Flash point Clev. °C	Kin. visc. at 40 °C mm²/s	Kin. visc. at 100 °C mm²/s	VI	Pour-point °C	Main application area
Zinc-containing Hydraulic Oils								
RENOLIN MR 22 MC	**Range RENOLIN MR MC** Universal lubricating and hydraulic oils based on MC base oils with high viscosity index (shear-stable). Excellent oxidation stability, outstanding cleaning properties and sludge carrying capacity. Fulfills and surpasses the requirements acc. to: DIN 51524-3: HVLPD ISO 6743-4: HV (with DD properties)	847	210	22	4.9	150	-48	Same application as for RENOLIN MR in addition to those which require oils with high viscosity index. Allow oil change intervals to be extended and grades to be rationalized. Multigrade characteristics. Very wide operating temperature window. Energy saving through high volumetric efficiency. **MC base oils = hydrotreated base oils (Group III)**
RENOLIN MR 32 MC		848	230	32	6.3	150	-45	
RENOLIN MR 46 MC		854	240	46	8.1	150	-42	
RENOLIN MR 68 MC		856	260	68	10.9	150	-39	
RENOLIN MR 46 MC-LCF Advanced Circular Technologies	Detergent multigrade hydraulic oil, based on sustainable MC base oils from circular economy. High, shear stable viscosity index and excellent detergant properties. By using sustainable base oils, the CO_2 footprint can be significantly redcued. The ACT product technology (Advanced Circular Technology) is based on sustainable base oils. Fulfills and surpasses requirements acc. to: DIN 51524-3: HVLPD ISO 6743-4: HV (with DD properties)	855	235	46	8.2	151	-40	For use in stationary and mobile hydraulics when a zinc-containing, detergent/dispersant hydraulic oil of the HVLPD type is required. Thanks to its multigrade characteristics, a rationalization of varieties is possible. Reduction of the CO_2 footprint through the use of sustainable base oils. Energy savings are possible due to the high efficiency of the hydraulic system.
RENOLIN MRX 46	Selected, and high quality special refined oil with additives to maximize ageing protection, reduce wear and friction. High detergent and sludge carrying capacity; excellent protection against corrosion: MRX 46: HLPD 46	884	232	46	6.9	103	-24	The RENOLIN MRX 46 hydraulic and lubricating oil is especially recommended for systems which are exposed to a high risk of dust/dirt or water contamination, e.g. for mobile hydraulic systems, for running-in procedures or in agriculture and forestry applications.
RENOLIN FF 68 Spindelöl Packages on request	Ultra-pure and fine-filtrated lubrication oil for tool spindles - formulated on special partly synthetic base oils. A very high and shear stable viscosity index guarantees a stable lubricant film, even at high temperatures. The complex filtration process effects a very good cleanliness of 15/13/10 acc.to ISO 4406. Very good detergent and dispersant properties. Fulfills and surpasses: DIN 51524-3: HVLP-D ISO 6743-4: HV (with DD proerties)	870	253	68	11.2	157	-42	For lubrication of tool spindles. High dirt carrying property prevents from sludge and varnish, partly synthetic base oils guarantee very good oxidation and ageing stability.

= 20 L (Canister), = 205 L (Drum), = 1000 L (IBC), = Tank Truck

Industrial Oils

Product name	Description	Density at 15 °C kg/m³	Flash point Clev. °C	Kin. visc. at 40 °C mm²/s	Kin. visc. at 100 °C mm²/s	VI	Pour-point °C	Main application area
Zinc- and Ash-free Hydraulic Oils (ZAF)								
RENOLIN MWB 46	Selected solvent base oil with additives to improve oxidation and ageing resistance. Excellent corrosion and wear protection, good load carrying capacity and low friction. High performance reserves. Zinc-free AW/EP additive system Fulfills and surpasses requirements acc. to: DIN 51524-2: HLPD ISO 6743-4: HM	882	218	46	6.9	105	-24	Heavy-duty HLPD hydraulic and circulating oil (CLP) for all highly stressed hydraulics. Excellent wear protection. High load carrying capacity. High load capacity according to Brugger of ≥50 N/mm², e.g. hydraulic presses in the automotive industry.
RENOLIN ZAF B 10 HT	**Range RENOLIN ZAF B HT** Zinc-and ash-free, demulsifying hydraulic and gear oils with good ageing stability and oxidation resistance. Excellent wear protection for gears (FZG > 12) and roller bearings. High corrosion protection, even in the presence of water, excellent non-ferrous metal compatibility. Fulfills and surpasses requirements acc. to: DIN 51524-2: HLP ISO 6743-4: HM DIN 51517-3: CLP ISO 6743-6: CKC DBL 6713-13: HLP	848	170	10	2.7	100	<-54	Demulsifying, zinc- and ash-free HLP hydraulic and CLP lubricating oils with good ageing resistance for all hydraulic systems, hydraulic presses or machine tools. Brugger ≥ 30N/mm²
RENOLIN ZAF B 22 HT		863	210	22	4.4	106	-33	
RENOLIN ZAF B 32 HT		875	220	32	5.4	96	-33	
RENOLIN ZAF B 46 HT		876	230	46	6.8	101	-24	
RENOLIN ZAF B 68 HT		882	242	68	8.8	100	-21	
RENOLIN ZAF B 100 HT		882	240	100	11.3	99	-18	
RENOLIN ZAF B 32 HT-LCF Advanced Circular Technologies	**Range RENOLIN ZAF B HT-LCF** Demulifying, zinc- and ashfree hydaulic oils based on sustainable raw materials. By the use of rerefined base oils, in combiantion with modern zinc and ashfree additiv technology, the CO_2 foodprint can be improved by up to 30% in comparison to conventional hydraulic oils. The ACT product technology (Advanced Circular Technology) is based on sustainable base oils. Fulfill and surpass reuqirements according to: DIN 51524-2: HLPD DIN 51517-3: CLP	849	248	23	5.8	125	-33	For use in hydraulic systems, hydraulic presses or machine tools as demulisifying universal circulating oil, gear oil or hydraulic fluid.
RENOLIN ZAF B 46 HT-LCF Advanced Circular Technologies		861	244	46	7.1	115	-30	

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Product name	Description	Density at 15 °C kg/m³	Flash point Clev. °C	Kin. visc. at 40 °C mm²/s	Kin. visc. at 100 °C mm²/s	VI	Pour-point °C	Main application area
Zinc- and Ash-free Hydraulic Oils (ZAF)								
RENOLIN ZAF D 22 HT	**Range RENOLIN ZAF D HT** Zinc- and ash-free lubricating and hydraulic oils with detergent and dispersant properties. Good ageing resistance, excellent wear protection and oxidation stability, good air release properties. Fulfill and surpass requirements acc. to DIN 51524-2: HLPD ISO 6743-4: HM DIN 51517-3: CLP(D) ISO 6743-6: CKC	860	206	22	4.3	103	-33	Detergent, zinc- and ash-free hydraulic HLPD and lubrication oils (CLP) for all hydraulic drives even if thermally stressed. Also suitable for use as CLP lubricating oil. Brugger ≥ 30N/mm²
RENOLIN ZAF D 32 HT		870	220	32	5.3	97	-33	
RENOLIN ZAF D 46 HT		880	230	46	6.8	100	-27	
RENOLIN ZAF D 68 HT		880	>230	68	8.8	100	-27	
RENOLIN ZAF D 32 HT-LCF Advanced Circular Technologies (on request)	**Range RENOLIN ZAF D HT-LCF** Zinc- and ashfree hydraulic oils based, on sustainable raw materials, with detergant / dispersant properties. They are designed by use of rerefined base oils, in combination with modern zinc- and ashfree addtive technology. The CO_2 foodprint can be reduced by up to 30%, compared to conventional hydraulic oils. The ACT product technology (Advanced Circular Technology) is based on sustainable base oils. Fulfill and surpass reuqirements according to: DIN 51524-2: HLPD DIN 51517-3: CLP	849	248	23	5.8	125	-33	For use in hydraulic systems, hydraulic presses or machine tools as universal circulating oil, gear oil or hydraulic fluid with detergant / dispersant properties.
RENOLIN ZAF D 46 HT-LCF Advanced Circular Technologies (on request)		861	244	46	7.1	115	-30	
RENOLIN ZAF D 46 HT PLUS	Universal zinc- and ash-free hydraulic fluid and lubricating oil, excellent ageing stability and high wear protection. Provides high deterging and dispersing properties. Fulfills and surpasses the requirements according to DIN 51524-2: HLPD ISO 6743-4: HM DIN 51517-3: CLP ISO 6743-6: CKC	866	230	46	6.9	106	-39	Detergent zinc- and ash-free hydraulic oils **based on hydrotreated group II base oils** with improved oxidation stability at high thermal stresses, for hydraulic presses. Brugger ≥ 30 N/mm² Extended lifetime, excellent air release, detergent/dispersant type
RENOLIN ZAF D 46 White (on request)	Universal zinc- and ash-free detergent type of hydraulic fluid and industrial gear oil, excellent ageing stability, very high wear protection, latest base oil generation, hydrotreated base oils and low sulphur content. Fulfills and surpasses requirements according to: DIN 51524-2: HLPD ISO 6743-4: HM (with DD-properties)	865	>230	46	6.9	106	-39	Excellent for all applications in mobile and stationary hydraulic systems, recommended according to DIN 51524-2 (HLP). Based on hydrotreated group II base oils, **"non-discoloration oil"**.

= 20 L (Canister), = 205 L (Drum), = 1000 L (IBC), = Tank Truck

Industrial Oils

Product name	Description	Density at 15 °C kg/m³	Flash point Clev. °C	Kin. visc. at 40 °C mm²/s	Kin. visc. at 100 °C mm²/s	VI	Pour-point °C	Main application area
Zinc- and Ash-free Hydraulic Oils (ZAF)								
RENOLIN ZAF 5 DT	**Range RENOLIN ZAF DT** Selected solvent extracts with special additives to improve corrosion protection and wear protection. High load carrying capacity acc. to Brugger. Detergent and dispersant. Fulfill and surpass DIN 51524-2: HLPD ISO 6743-4: HM (with DD-properties) DIN 51517-3: CLP(D) ISO 6743-6: CKC (with DD-properties)	838	116	5	1.7	99	-40	Heavy-duty hydraulic and circulating oils with outstanding detergent and dispersant properties. Very good ageing resistance, good corrosion protection and excellent load carrying capacity. Daimler DBL 6721 for machine tools Brugger value ≥ 50 N/mm²
RENOLIN ZAF 10 DT		848	154	10	2.7	108	-30	
RENOLIN ZAF 15 DT		865	190	15	3.3	86	-27	
RENOLIN ZAF 22 DT		866	198	22	4.4	109	-27	
RENOLIN ZAF 32 DT		876	210	32	5.4	102	-24	
RENOLIN ZAF 46 DT		876	218	46	6.8	101	-24	
RENOLIN ZAF 68 DT		879	224	68	8.9	104	-18	
RENOLIN ZAF 100 DT		882	220	100	11.3	99	-18	
RENOLIN ZAF 150 DT		887	222	150	14.6	96	-15	
RENOLIN ZAF 32 MC	**Range RENOLIN ZAF MC** Lubricating and hydraulic oils based on group III base oils with selected additives. Very good oxidation and ageing stability, very good corrosion protection and high wear protection. High viscosity index (shear stable). Fulfill and surpass DIN 51524-3: HVLP ISO 6743-4: HV DIN 51517-3: CLP ISO 6743-6: CKC DBL 6713: HLP, HVLP	840	220	32	6.3	149	-45	Shear stable, zinc- and ash-free hydraulic and circulating oils with high viscosity index. **Based on MC hydrotreated group III base oils**. Oil drain intervals might be extended and grades can be rationalized (multigrade characteristics). Energy saving through high efficiency. Approvals: Denison HF0 Bosch Rexroth RDE 90245
RENOLIN ZAF 46 MC		843	238	46	8.0	148	-45	
RENOLIN ZAF 68 MC		854	238	68	10.6	146	-42	

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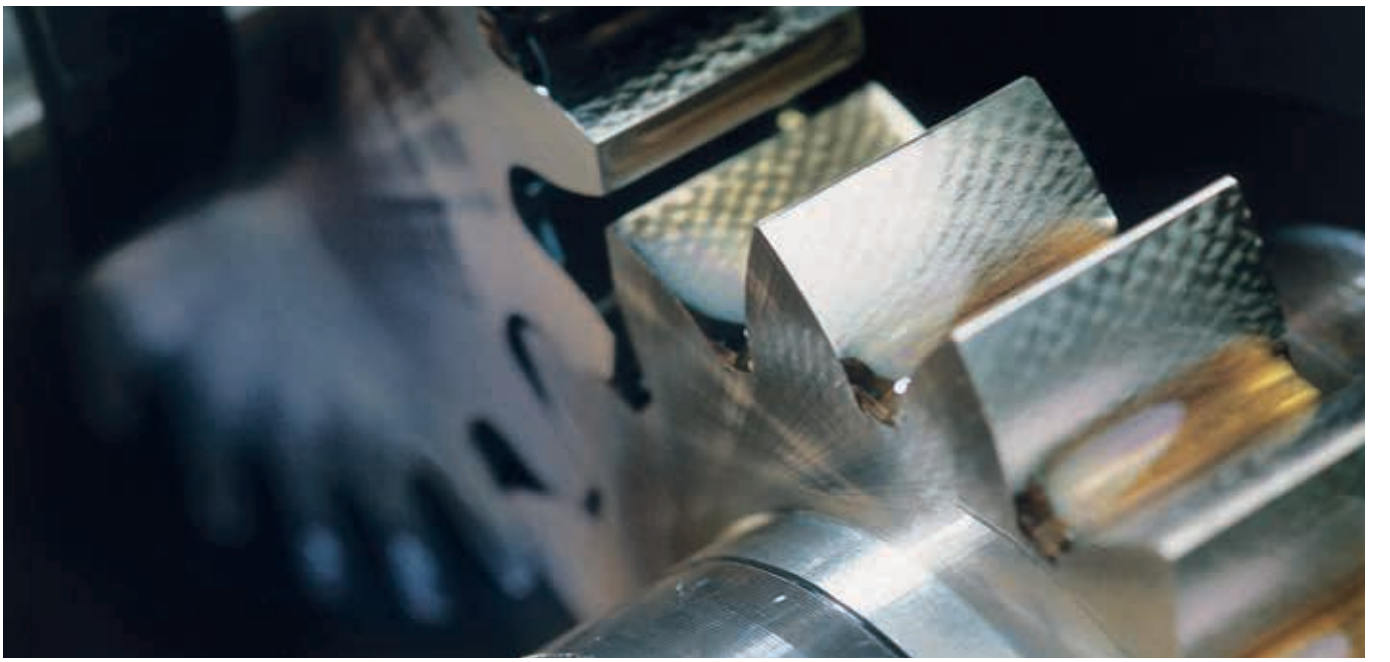
Product name	Description	Density at 15 °C kg/m³	Flash point Clev. °C	Kin. visc. at 40 °C mm²/s	Kin. visc. at 100 °C mm²/s	VI	Pour-point °C	Main application area
Zinc- and Ash-free Hydraulic Oils (ZAF)								
RENOLIN ZAF 520	Zinc- and ash-free special hydraulic and lubricating oil with extreme high viscosity index. Thus very good viscosity-temperature behaviour. Fulfills and surpasses DIN 51524-3: HVLP; ISO 6743-4: HV (detergent)	856	160	33	9.2	277	-48	For all hydraulic systems with high temperature variations also for low-temperature applications.
RENOLIN ZAF 15 LT	**Range RENOLIN ZAF LT** Zinc- and ash-free hydraulic oils with very high viscosity index for low-temperature applications. Demulsifying with additives to improve ageing stability and corrosion protection. Surpass the requirements of DIN 51524-3: HVLP; ISO 6743-4: HV	873	>90	14	5.3	387	<-60	Developed for the use in applications with very low ambient temperatures in mobile and stationary equipment; latest additive technology. (ZAF) Demulsifying type. Kinematic viscosity at -40 °C: - RENOLIN ZAF 15 LT = 460mm²/s - RENOLIN ZAF 32 LT = 4850 mm²/s
RENOLIN ZAF 32 LT		853	135	32	9.5	300	<-54	
RENOLIN ZAF 32 XHV	Newly designed zinc- and ash-free hydraulic oil with very high shear stable viscosity index, which allows outstanding low-temperature properties. Demulsifying, with additives for an excellent compatibility with nonferrous metals and a high wear protection. Fulfills the requirements according to DIN 51524-3: HVLP and ISO 6743-4: HV (with exception of the flashpoint).	853	135	32	9.5	300	≤-51	Developed for applications which require a very good flow behavior also at low temperatures. Kinematic viscosity at -40 °C = 2150 mm²/s
RENOLIN HighPress 46 DLC	Zinc- and ash-free high performance EP hydraulic oil for Ortlinghaus lamellar clutch systems (hydraulic presses). Excellent detergent and dispersant properties, very good wear protection (FZG failure load stage 12 / Brugger value 50 N/mm²). Fulfills and surpasses the requirements on hydraulic oils acc. to DIN 51524-2: HLPD ISO 6743-4: HM (with DD-properties)	877	212	46	6.8	100	–	Especially suitable for the use in systems with Ortlinghaus lamellar clutches. Defined friction coefficients are proved in use (static and dynamic). Müller Weingarten DT 55005 Ortlinghaus lamellar clutches ON 9.2.19 Also suitable for the use in circulation and bearing lubrication in all hydraulic presses.
RENOLIN PG 32	**Range RENOLIN PG** Fully-synthetic hydraulic and lubricating oils based on polyglycols for highest requirements regarding thermal stability, high viscosity index. Not miscible or compatible with mineral oils, water-soluble, rapidly biodegradable acc. to OECD 301. Classification acc. to ISO 15380: PG 32: HEPG 32 PG 46: HEPG 46 Fulfill and surpass the requirements on hydraulic oils HVLP acc. to DIN 51524-3.	1022	220	32	7.1	194	-51	For highly loaded hydraulic and lubricating systems with extreme thermal load. Please consider change-over guidelines. Water-soluble PAG hydraulic oil, not miscible or compatible with mineral oils or PAO oils.
RENOLIN PG 46		1024	240	46	9.7	203	-48	

= 20 L (Canister), = 205 L (Drum), = 1000 L (IBC), = Tank Truck

Industrial Oils

Product name	Description	Density at 15 °C kg/m³	Flash point Clev. °C	Kin. visc. at 40 °C mm²/s	Kin. visc. at 100 °C mm²/s	VI	Pour-point °C	Main application area
			Fire-resistant Hydraulic Fluids					
HYDROTHERM 46 M	Based on water-glycol; tested and approved acc. to 6th and 7th Luxemburg report. Good wear protection, very good corrosion protection, extreme ageing resistance. HFC hydraulic oil acc. to DIN 51502: HFC and VDMA 24317: HFC, ISO 12922: HFC46.	1084	–	46	9.5	195	-42	For all hydraulic systems in fire hazard areas (mining, steel industry, aluminium industry, foundry, forging, glas industry). Suitable for all materials, paintings and elastomers which are resistant to water-glycol. Monoethylene-free and amine-free.
HYDROTHERM 42 HFC (on request)	New developed HFC fluid, fire-resistant hydraulic fluid (according to ISO 12922), based on water-glycol with the latest additive technology. Excellent wear protection and superior air release properties in combination with very good corrosion protection. Fulfills and surpasses requirements on HFC fluids according to: DIN 51502: HFC ISO 12922: HFC VDMA 24317: HFC	1084	–	42	8.9	195	<-60	For hydraulic systems in fire hazard areas, if HFC fluids are required. Fulfills requirements according to 7th Luxembourger Report.
RENOSAFE DU 46	Water-free fire-resistant fluid based on special esters. Voith-Turbo Approval, HFDU acc. to ISO 12922	922	>280	48	9.7	188	-36	Fire-resistant hydraulic fluid based on special organic esters - HFDU. Optimized for turbo couplings. Compatible with mineral oils. Compatibility with sealings, tubes and paintings has to be checked.
RENOSAFE TURBO 46 HF	Water-free, fire-resistant, special, thermally stable phosphoric acid esters. Good demulsibility (water separation), low foaming tendency, high oxidation stability. ISO 12922: HFDR46	1150	>262	44.5	5.0	-36	-24	Hydraulic fluid in fire hazard areas. For electrohydraulic controlled oil circuits in steam turbines, bearing lubrication for steam- and gas turbines, phosphoric ester. New HFDR technology.
RENOSAFE FireProtect 46	**Range RENOSAFE FireProtect** Water-free, fire-resistant hydraulic fluids based on latest ester and additive technology, type HFDU. Highest oxidation and thermal stability, excellent nonferrous metal compatibility, hydrolytic stability, very robust and reliable wear protection. Multigrade characteristics by high, shear stable viscosity index. Biodegradable acc. to OECD 301 B >60%. Surpass the requirements on HFDU oils acc. to ISO 12922.	920	316	50	10.1	195	-48	For the use as fire-resistant hydraulic oils based on organic esters. Type HFDU for all hydraulic applications in fire hazard areas or glowing metal surfaces such as in die-casting machines, steel mills, continuous casting machines, hot rolling mills, coking plants and other mobile and stationary hydraulic systems, excellent lifetime, excellent yellow metal compatibility. Approved for use in Voith T and TP couplings.
RENOSAFE FireProtect 68		932	316	70	12.9	187	-45	

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Product name	Description	Density at 15 °C kg/m³	Flash point Clev. °C	Kin. visc. at 40 °C mm²/s	Kin. visc. at 100 °C mm²/s	VI	Pour-point °C	Main application area
Gear and Circulating Oils								
RENOLIN CLP 68	**Range RENOLIN CLP** High-performance gear and circulating oils with good ageing stability and additives to improve corrosion protection (also combat steel and nonferrous metal corrosion caused by moisture). Outstanding antiwear characteristics – good EP / AW performance, excellent scuffing, load carrying capacity and protection against micropitting, excellent FE8 roller bearing wear protection, good demulsifying properties, very good foaming behaviour, zinc and ash-free and silicone oil-free. RENOLIN CLP oils fulfill and exceed the minimum requirements of CLP industrial gear oils acc. to DIN 51517-3, ISO 6743-6 and ISO 12925-1: CKC, CKD, CKSMP. US Steel 224, David Brown S1.53.10.	887	>230	68	8.7	99	-24	Universally useable gear oils for industrial applications such as in bearings, joints, spur gears, bevel gears and worm gears and whenever the manufacturer recommends a mineral oil of type CLP. Approved by leading gear box manufacturers. **Mineral oil based** Demulsifying
RENOLIN CLP 100		880	>230	100	11.3	99	-24	
RENOLIN CLP 150		885	>230	150	14.5	96	-24	
RENOLIN CLP 220		892	>240	220	18.9	96	-21	
RENOLIN CLP 320		897	>240	320	24.0	95	-12	
RENOLIN CLP 460		901	>240	460	30.4	95	-12	
RENOLIN CLP 680		902	>240	680	40.0	97	-12	

= 20 L (Canister), = 205 L (Drum), = 1000 L (IBC), = Tank Truck

Industrial Oils

Product name	Description	Density at 15 °C kg/m³	Flash point Clev. °C	Kin. visc. at 40 °C mm²/s	Kin. visc. at 100 °C mm²/s	VI	Pour-point °C	Main application area
Gear and Circulating Oils								
RENOLIN CLP 46 PLUS (200 L)	**Range RENOLIN CLP PLUS** High-performance gear and circulating oils offering excellent wear protection, good EP performance and excellent corrosion protection. Carefully selected antioxidants guarantee good ageing stability. Special detergent/dispersant additives offer very good cleaning properties and dirt carrying capacity. RENOLIN CLP PLUS oils fulfill and surpass the minimum requirements on lubricating oils acc. to DIN 51517-3: CLPD, ISO 6743-6 and ISO 12925-1: CKC, CKD, CKSMP. RENOLIN CLP PLUS oils were developed especially for the extreme conditions (e.g. in surface mining).	875	200	46	6.8	102	-27	Special gear oils for highly stressed mechanical industrial gears, spur gears, double-spur gears, bevel gears and worm gears. Long-life oils (tested and approved for 30,000 hours in brown coal open pit mining conveyors/gears). Especially for use in severe conditions where dirt, dust and water contamination prevail. Increased oxidation stability. **Mineral oil based**
RENOLIN CLP 68 PLUS (200 L)		878	236	68	8.7	100	-27	
RENOLIN CLP 100 PLUS		881	240	100	11.2	97	-24	
RENOLIN CLP 150 PLUS		885	250	150	14.8	97	-24	
RENOLIN CLP 220 PLUS (20 x 1 L)		895	260	220	18.9	96	-24	
RENOLIN CLP 320 PLUS		898	255	320	24.0	95	-18	
RENOLIN CLP 460 PLUS		902	270	460	30.2	94	-14	
RENOLIN CLP 680 PLUS		902	270	680	39.6	95	-17	
RENOLIN AWD 68	**Range RENOLIN AWD** Special gear and circulating oils for highest requirements on wear protection. Special additives reduce friction and form reaction layers which offer excellent wear protection in extreme mixed friction and load conditions. Brugger value (typical: >75 N/mm²), excellent FE8 roller bearing wear protection, good dirt carrying capacity (detergent / dispersant), zinc and silicone oil-free, high additive reserves. The RENOLIN AWD series surpasses the minimum requirements on industrial gear oils CLPD acc. to DIN 51517-3, ISO 6743-6 and ISO 12925-1: CKC, CKD, CKSMP. Approved by leading press manufacturers.	881	221	68	8.9	105	-24	For highly-stressed industrial gear boxes and circulating systems, especially when good load carrying capacity in extreme mixed friction is required, e.g. press lines in the automotive industry. **Mineral oil based**
RENOLIN AWD 100		885	222	100	11.2	97	-24	
RENOLIN AWD 150		888	208	150	14.6	96	-12	
RENOLIN AWD 220		894	210	220	18.7	95	-12	

RENOLIN

Product name	Description	Density at 15 °C kg/m³	Flash point Clev. °C	Kin. visc. at 40 °C mm²/s	Kin. visc. at 100 °C mm²/s	VI	Pour-point °C	Main application area
Fully Synthetic Gear and Circulating Oils								
RENOLIN PG 68	**Range RENOLIN PG** Fully synthetic gear and lubricating oils based on special polyalkylene glycols (PAG) for applications with extreme thermal loads. Very high oxidation and ageing stability, high viscosity index (shear stable), good viscosity-temperature behaviour, excellent load carrying capacity, low friction coefficients, high FZG, very good pitting and high micropitting resistance, excellent FE8 performance. The oils of the RENOLIN PG series surpass the minimum requirements of CLP-PG lubricating oils acc. to DIN 51517-3, ISO 6743-6 and ISO 12925-1: CKC, CKD, CKE, CKSMP, CSPG, CTPG. Approved by leading gear box manufacturers.	1035	240	68	13.8	212	-48	For gear boxes operating in extreme thermal and mechanical conditions, such as worm gears. Can also be used as compressor oils for process gases such as methane, ethane, propane, etc. due to low hydrocarbon gas solubility. And might be used for calender lubrication. RENOLIN PG is especially suitable for steel / bronze sliding pairs in worm gears. Not miscible or compatible with mineral oils, ester oils and PAO-based oils. Change-over guidelines must be observed. **Based on Polyglycol**
RENOLIN PG 100		1043	260	100	19.6	220	-48	
RENOLIN PG 150		1051	260	145	27.0	224	-48	
RENOLIN PG 220		1075	240	220	36.8	220	-33	
RENOLIN PG 320		1075	240	320	54.4	237	-33	
RENOLIN PG 460		1075	280	460	75.1	245	-33	
RENOLIN PG 680		1075	280	680	110.3	261	-33	
RENOLIN PG 1000		1075	280	1000	162.0	281	-33	
RENOLIN PG 1500		1078	280	1500	240.0	300	-18	

= 20 L (Canister), = 205 L (Drum), = 1000 L (IBC), = Tank Truck

Industrial Oils

Product name	Description	Density at 15 °C kg/m³	Flash point Clev. °C	Kin. visc. at 40 °C mm²/s	Kin. visc. at 100 °C mm²/s	VI	Pour-point °C	Main application area
Fully Synthetic Gear and Circulating Oils								
RENOLIN UNISYN XT 68	**Range RENOLIN UNISYN XT** Fully-synthetic industrial gear oils based on new, innovative polyalpha-olefins with very high, natural, shear stable viscosity index and excellent low temperature behaviour. Excellent wear protection, high micropitting resistance and very good corrosion protection. RENOLIN UNISYN XT oils exceed the requirements on industrial gear oils CLP-HC acc. to DIN 51517-3, ISO 6743-6, ISO 12925-1: CKC, CKD, CKE, CKSMP and AGMA 9005/E02: EP.	850	238	68	11.0	154	-54	Suitable for the lubrication of gears and bearings. For the use in applications with high requirements on wide temperature range. Extremely low viscosity at low temperatures. ISO VG 220 and 320 for wind turbine applications. Approved by leading gear box manufacturers. **Based on mPAO**
RENOLIN UNISYN XT 100		850	238	100	15.3	162	-48	
RENOLIN UNISYN XT 150		850	238	150	21.4	168	-45	
RENOLIN UNISYN XT 220 (20 x 1 L)		860	242	220	29.4	174	-42	
RENOLIN UNISYN XT 320		860	242	320	40.2	179	-42	
RENOLIN UNISYN XT 460		860	242	460	54.5	188	-42	
RENOLIN UNISYN XT 680		860	244	680	75.5	192	-39	
RENOLIN UNISYN XT 1000		860	244	1000	101.0	195	-33	
RENOLIN UNISYN CLP 68	**Rage RENOLIN UNISYN CLP** Fully-synthetic PAO-based industrial gear oils with increased ageing stability, very good load carrying capacity and excellent wear protection. RENOLIN UNISYN CLP provides a high micropitting resistance, a good air release and very good filtraiton behaviour. Fulfill resp. surpass the minimum requirements acc. to DIN 51517-3: CLP; ISO 6743-6 and ISO 12925-1: CKC, CKD, CKE, CKSMP and AGMA 9005/E02: EP.	848	240	68	10.7	147	-56	Suitable for the lubrication of gears and bearings. For the use in applications with high requirements on wide temperature range. Extremely low viscosity at low temperatures. ISO VG 220 and 320 for wind turbine applications. Approved by leading gear box manufacturers. **Based on PAO**
RENOLIN UNISYN CLP 150		853	250	150	19.6	150	-45	
RENOLIN UNISYN CLP 220		854	260	220	26.7	155	-42	
RENOLIN UNISYN CLP 320		860	260	320	35.0	155	-42	
RENOLIN UNISYN CLP 460		861	300	460	45.6	155	-39	
RENOLIN UNISYN CLP 680		862	300	680	62.2	160	-33	
RENOLIN UNISYN CLP 1000		864	300	1000	92.0	179	-33	

RENOLIN

Product name	Description	Density at 15 °C kg/m³	Flash point Clev. °C	Kin. visc. at 40 °C mm²/s	Kin. visc. at 100 °C mm²/s	VI	Pour-point °C	Main application area
Gear and Circulation Oils								
RENOLIN CLPF 100 SUPER	**Range RENOLIN CLPF SUPER with MoS_2** EP industrial gear oils containing MoS_2 (molybdenum disulphide) with synergistically active EP / AW additives and physically active anti-wear layers (MoS_2). The MoS_2 components guarantee excellent lubricity at low temperature over a wide range of working conditions. The MoS_2 as solid lubricant ensures reliable wear protection even under shock loads and unfavourable operating conditions. The MoS_2 dampens vibrations and noise. Very good wear protection in mixed friction areas, good dirt carrying capacity, excellent foaming behaviour, very good bearing wear protection - excellent FE8 performance, zinc and silicone oil-free. RENOLIN CLPF SUPER series surpasses the minimum requirements on industrial gear oils DIN 51517-3: CLPF ISO 6743-6 and ISO 12925-1: CKC, CKD	888	240	100	11.2	98	-21	For highly stressed gear boxes at low circumferential speeds and high loads, also for shock loads and unfavourable operating conditions, for noise-dampening. Also for spindle and gear box applications in forging presses. **Mineral oil based**
RENOLIN CLPF 220 SUPER		896	260	220	18.8	95	-21	
RENOLIN CLPF 320 SUPER		897	255	320	24.0	95	-14	
RENOLIN CLPF 460 SUPER		902	270	460	30.4	95	-12	
RENOLIN CLPF 680 SUPER		918	270	680	36.8	88	-10	
RENOLIN CLPF 1500 SUPER		928	240	1500	70.5	104	-12	
RENOLIN HighGear 150	**Range RENOLIN HighGear** RENOLIN HighGear oils are based on selected mineral oils. Synergistic additives provide outstanding wear protection of these new high-tech gear oils. Highly effective tribo-protection layers reliably protect wetted machine components against wear. This new additive technology is also referred to as a smoothening PD (plastic deformation) reaction mechanism. These additives have a noticeable smoothening effect on surface roughness. DIN 51517-3: CLP, ISO 6743-6 and ISO 12925-1: CKC, CKD, CKE, CKSMP	892	>210	150	14.6	96	-21	RENOLIN HighGear can be used both in pre-damaged gear boxes and machine components to increase service life as well as in new gear boxes (spur, bevel, planetary and worm gears) to reduce friction, wear and noise in extreme conditions. **Mineral oil based**
RENOLIN HighGear 220		895	>210	220	19.0	97	-18	
RENOLIN HighGear 320		897	>210	320	24.3	97	-12	
RENOLIN HighGear 460		909	>210	460	30.8	97	-9	
RENOLIN HighGear 680		907	>210	680	41.5	101	-9	

= 20 L (Canister), = 205 L (Drum), = 1000 L (IBC), = Tank Truck

Industrial Oils

Product name	Description	Density at 15 °C kg/m³	Flash point Clev. °C	Kin. visc. at 40 °C mm²/s	Kin. visc. at 100 °C mm²/s	VI	Pour-point °C	Main application area
Special Gear and Circulating Oils								
RENOLIN HighGear Synth 220	**Range RENOLIN HighGear Synth** RENOLIN HighGear Synth is based on synthetic polyalphaolefins (PAO). Special synergistic additives provide outstanding wear protection of these new high-tech gear oils. Highly effective tribo-protection layers reliably protect wetted machine components against wear. RENOLIN HighGear Synth oils have a high, natural and shear stable viscosity index and are suitable for both high and low temperature applications. High thermal and oxidation stability allow oil change intervals to be extended. DIN 51517-3: CLP; ISO 6743-6 and ISO 12925-1: CKC, CKD, CKE, CKSMP.	873	220	220	23.6	133	-33	RENOLIN HighGear Synth can be used both in pre-damaged gear boxes and machine components to increase service life as well as in new gear boxes (spur, bevel, planetary and worm gears) to reduce friction, wear and noise in extreme conditions. Synthetic PAO components help reduce friction, enable lower operating temperatures and can increase efficiency. Excellent low-temperature characteristics, high, shear stable viscosity index. **Based on PAO**
RENOLIN HighGear Synth 320		876	220	320	31.2	135	-34	
RENOLIN MORGEAR 100	**Range RENOLIN MORGEAR** High-performance circulating oils based on mineral oil, for the lubrication of MORGOIL bearings. Mild EP/AW additives provide good wear protection, synergistically acting additives ensure good ageing stability and excellent demulsibility (very good water separation). ISO 6743-6 and DIN 51517-2: CL, ISO 12925-1: CKB.	878	248	100	11.1	96	-19	For the lubrication of MORGOIL bearings. RENOLIN MORGEAR oils fulfill and surpass the requirements of DANIELI (Italy) and SMS. **Mineral oil based**
RENOLIN MORGEAR 220		887	255	226	19.2	96	-10	
RENOLIN MORGEAR 460		894	>270	470	31.1	96	-9	
RENOLIN MORGEAR 680		907	252	682	39.2	95	-7	
RENOLIN CLP 150 VCI	**Range RENOLIN CLP VCI** Special industrial gear oils based on mineral oil with VCI components (Vapour Corrosion Inhibitors). Excellent corrosion protection properties. Reliable long-term corrosion protection in the oil phase as well as in the vapour phase. Excellent wear protection, high scuffing protection, good compatibility with industrial gear oils and good elastomer compatibility. Fulfill and surpass the requirements on CLP industrial gear oils acc. to DIN 51517-3: CLP; ISO 6743-6 and ISO 12925-1: CKC / CKD as well as AGMA 9005/E02: EP.	885	250	150	14.5	96	-24	Recommended for applications with highly loaded spur gears, bevel gears, and worm gears. Also suitable in highly loaded bearings, joint bearings and pressure spindles. Especially for gears and components which are not used for a longer period of time or are stored before they are used and therefore a conservation must be applied. Contain VCI-components (Vapour Corrosion Inhibitors). Also recommended for gear test rigs (running-in oil). **Mineral oil based**
RENOLIN CLP 220 VCI		892	254	220	18.9	96	-24	
RENOLIN CLP 320 VCI		893	255	320	24.0	95	-12	
RENOLIN CLP 460 VCI		897	270	460	30.4	95	-12	

= 20 L (Canister), = 205 L (Drum), = 1000 L (IBC), = Tank Truck

RENOLIN

Product name	Description	Density at 15 °C kg/m³	Flash point Clev. °C	Kin. visc. at 40 °C mm²/s	Kin. visc. at 100 °C mm²/s	VI	Pour-point °C	Main application area
Special Gear and Circulating Oils								
RENOLIN UNISYN GEAR 220 VCI *Further ISO VG grades available on request.	**RENOLIN UNISYN GEAR 220 VCI*** Fully-synthetic industrial gear oil based on PAO with excellent corrosion protection properties due to VCI components (Vapour Corrosion Inhibitors). Reliable long-term corrosion protection in the oil phase as well as in the vapour phase. Excellent wear protection, high scuffing protection, good compatibility with industrial gear oils. Fulfill and surpass the requirements on CLP industrial gear oils acc. to DIN 51517-3: CLP, ISO 6743-6 and ISO 12925-1: CKC, CKD as well as AGMA 9005/E02: EP.	855	260	220	27.3	160	-42	For the use in heavily loaded spur gears, bevel gears and worm gears with circulation oil system or oil injecting system. Especially for high operating temperatures. Contains VCI components (Vapour Corrosion Inhibitors). **Based on PAO**
RENOLIN PentoGear 220 WT	**Range RENOLIN PentoGear WT** The products of the RENOLIN PentoGear WT range are PAO-free synthetic high-performance industrial gear oils and wind turbine gear oils. Very good viscosity-temperature-behaviour due to the high viscosity index (VI). Due to ist outstanding miscibility and compatibility with gear oils in the market, a simplified change-over is possible. The unique technology enables a reduction in operating temperatures under load. Practical tests have demonstrated energy savings of up to 4% compared to conventional mineral oil-based industrial gear oils. Fulfill / surpass the minimum requirements for industrial gear oils according to DIN 51517-3: CLP; ISO 6743-6 and ISO 12925-1: CKC / CKD / CKSMP / CKE	884	228	220	28.2	166	-42	Recommended for use in highly loaded industrial gearboxes such as spur, bevel and worm gearboxes with recirculating or oil-injection lubrication. Suitable for wind turbine gearbox applications, especially as service oil or flushing oil, an alternative to PAO based gear oils.
RENOLIN PentoGear 320 WT Further viscosity grades available on request.		892	232	320	37.4	166	-39	
RENOFLUID TF 1500	Special EP-hydraulic- and gear oil based on high-performance base oils. With high ageing stability. FZG-Test A/8,3/90 Failure load stage > 12. DIN 51524-2: HLP ISO 6743-4: HM	870	224	32	5.4	102	-30	Power transmission oil for VOITH turbo gears, hydraulic oils for VOITH-turbo couplings. Also suitable as low viscosity, high-pressure gear oil especially with hydraulic controls and combined oil system. Voith Turbo approval. **Mineral oil based**
Special Corrosion Protection Concentrate								
RENOLIN VCI BOOST (4 x 5 L)	Additive concentrate for the use in FUCHS gear, hydraulic and turbine oils. Contains VCI components (VCI = Vapour Corrosion Inhibitor).	905	155	105	12.5	112	-12	Universal VCI corrosion protection concentrate for the use in RENOLIN industrail oils based on mineral oil, PAO and esters. Easy dosage and usage. Recommended concentration: 2%

Industrial Oils



Product name	Description	Density at 15 °C kg/m³	Flash point Clev. °C	Kin. visc. at 40 °C mm²/s	Kin. visc. at 100 °C mm²/s	VI	Pour-point °C	Main application area
Slideway Oils								
RENEP CGLP 68	**Range RENEP CGLP** Mineral oil based slideway oils with lubricity improvers and friction-reducing additives. Good EP performance. Protect against corrosion and prevent stick-slip. CGLP slideway oils according to DIN 51502. Demulsifying. Fulfills and surpasses the requirements acc. to DIN 51502: CGLP ISO 6743-13: GA, GB DIN 51517-3: CLP	879	220	68	8.6	99	-24	Excellent chemical compability with water-miscible metal working fluids. Slideway oils with very good demulsifying power, very low friction coefficient. HELLER approval. These slideway oils are especially suitable for the use with ECOCOOL cutting fluids. Proven good compatibility with many water-miscible cutting fluids. Approved by leading machine tool manufacturers. **Mineral oil based**
RENEP CGLP 150		892	230	150	14.6	96	-12	
RENEP CGLP 220 (60 L, 205 L)		895	240	220	19.0	96	-15	
RENEP 2 K	**Range RENEP K** Slideway oils with special additives to reduce stick-slip especially for machine tools. Good detergency. Emulsifying. Detergent/dispersant type RENEP 2 K: CGLP 68 RENEP 5 K: CGLP 220	882	230	68	9.2	112	-27	Suitable for all slideway applications. RENEP K series show good material compatibility. RENEP 2 K is especially suitable for horizontal slideways. Also used for lubrication of bearings and gears and as hydraulic oil. RENEP 5 K is used in highly loaded slideways and in vertical guideways. **Mineral oil based**
RENEP 5 K		900	248	220	19.9	104	-12	
RENEP 68 KN	**Range RENEP KN** Excellent adhesion provided by special additives which increase the adhesion to metal and plastic surfaces - "tacky" effect. Good EP performance. Protect against corrosion and prevent stick-slip. Advanced formulation. Fulfills and surpasses requirements acc. to: DIN 51502: CGLP ISO 6743-13: GA / GB DIN 51517-3: CLP	880	220	68	9.1	118	-29	Excellent chemical compability with water-miscible metal working fluids. Slideway oils with very good demulsifying properties, low friction coefficient. Containing tackyfier. Approved by leading machine tool manufacturers. Heller-Approval Especially suitable for the use with ECOCOOL cutting fluids. **Mineral oil based**
RENEP 150 KN (60 L, 205 L)		897	220	150	15.5	99	< -15	
RENEP 220 KN (60 L, 205 L)		895	238	220	19.5	100	-17	

RENEP, RENOLIN



Product name	Description	Density at 15 °C kg/m³	Flash point Clev. °C	Kin. visc. at 40 °C mm²/s	Kin. visc. at 100 °C mm²/s	VI	Pour-point °C	Main application area
Paper Machine Oils								
RENOLIN PA 150	**Range RENOLIN PA** High-performance paper machine oils based on specially selected mineral base oils in combination with zinc-containing EP-additives which provide an excellent wear protection. RENOLIN PA oils fulfill and exceed the minimum requirements on CLP gear oils acc. to DIN 51517-3 and the requirements of paper machine oils for the wet end and dryer section acc. to Voith VN 108.	880	>230	150	15.0	100	-30	Recommended for the use in wet end and dryer sections in paper machines, also in gear boxes, bearings in central lubricating systems as well as in applications where a lubricating oil with high thermal stability and very good ageing stability is needed, demulsifying type. **Mineral oil based**
RENOLIN PA 220		886	>230	220	19.3	99	-18	
RENOLIN NF PRESS 100 Packages on request	Mineral oil based hydraulic oil based on hydrogenated mineral oils in combination with specially selected, zinc- and ash-free additive technology. Specially developed for the use in hydraulic presses in paper machines. Exceeds the requirements on hydraulic oils acc. to Voith VN 108.	867	260	100	11.5	103	-36	For the use in hydraulic presses in paper machines, e.g. Voith shoe presses. Hydrogenated base oils. **Mineral oil based**

= 20 L (Canister), = 205 L (Drum), = 1000 L (IBC), = Tank Truck

Industrial Oils

Product name	Description	Density at 15 °C kg/m³	Flash point Clev. °C	Kin. visc. at 40 °C mm²/s	Kin. visc. at 100 °C mm²/s	VI	Pour-point °C	Main application area
Paper Machine Oils								
RENOLIN UNISYN CLP 150 PA	**Range RENOLIN UNISYN CLP PA** Fully-synthetic, high performance paper machine oils based on polyalphaolefins. Excellent demulsibility (excellent water separation), high ageing stability, excellent wear protection and very good corrosion protection. High natural, shear stable viscosity index. For higher operating temperatures. Fulfill and surpass the minimum requirements of gear oils CLP-HC acc. to DIN 51517-3.	857	>200	150	19.8	152	-39	For the use in circulating lubrication of the wet end and dryer section in paper machines, also in gear boxes and central lubricating systems. Especially for higher operating temperatures. RENOLIN UNISYN CLP 220 PA Fulfills and surpasses the minimum requirements of the companies SKF, FAG and Voith VN 108 **Based on PAO**
RENOLIN UNISYN CLP 220 PA		859	230	220	26.5	154	-36	
RENOLIN UNISYN CLP 320 PA		864	>240	320	34.2	151	-32	
RENOLIN UNISYN CLP 460 PA		866	>240	460	46.0	156	-27	
RENOLIN SynGear 220 HT	Fully-synthetic high-temperature EP industrial gear oil and calender oil based on selected polyglycols (PAG). Excellent wear protection and ageing stability. DIN 51517-3: CLP-PG ISO 6743-6: CKC/CKD/CKT	1078	240	240	39.0	216	-36	For mechanically and thermally highly loaded wheel and worm gears / rolling and plain bearings. Especially for calenders in the paper and foil industry. Peak temperatures of 250 °C are allowed for a short time. Miscibility and compatibility properties with polyglycols of others manufacturers have to be checked. **Based on PAG (Polyglycol)**

= 20 L (Canister), = 205 L (Drum), = 1000 L (IBC), = Tank Truck

RENOLIN



Product name	Description	Density at 15 °C kg/m³	Flash point Clev. °C	Kin. visc. at 40 °C mm²/s	Kin. visc. at 100 °C mm²/s	VI	Pour-point °C	Main application area
Turbine Oils								
RENOLIN ETERNA 32	**Range RENOLIN ETERNA** Turbine oils of the latest generation for lubrication of gas and steam turbines and turbo compressors (also with gear boxes, FZG ≥ 10). Based on high-quality, hydrocracked base oils. High ageing resistance, excellent protection against sludge formation. No- / Low-Varnish turbine oils. Turbine oils acc. to DIN 51515-1: TDP and DIN 51515-2: TGP.	842	220	32	5.8	126	-15	For the lubrication of steam and gas turbines, generators, turbo compressors, pumps and transmissions. Furthermore used as lubricating and barrier oil in water-cooled generators. Surpass TDP and TGP according to DIN 51515 part 1 resp. part 2. AW/EP turbine oils: FZG≥10. Approved by many well-known OEM
RENOLIN ETERNA 46		846	220	46	7.6	132	-15	
RENOLIN ETERNA 68		851	230	68	9.5	120	-15	
RENOLIN ETERNA 32 SGV	**Range RENOLIN ETERNA SGV** Turbine oils of the latest generation for gas and steam turbines as well as for turbo compressors without gear boxes. Exceed the requirements of DIN 51515-1: TD and DIN 51515-2: TG. EP/AW-free	838	220	32	5.8	126	-15	For the use in gas and steam turbines as well as in turbo compressors. Especially suitable for the compression of synthesis gases and ammonia. EP/AW-free, highest thermal stability. Approved by many well-known OEM
RENOLIN ETERNA 46 SGV		846	220	46	7.6	132	-15	
RENOLIN ETERNA Clean 46	Polar cleaning fluid for turbine oil circuits. Compatible with all common turbine oils. Free from detergents: No deterioration of the air and water separation behaviour and other negative impacts which occur with conventional cleaners. RENOLIN ETERNA Clean 46 contains a complete additive system. Therefore, a "weakening" of the turbine oil filling - arising by addition of other cleaners - will be prevented.	893	238	46	6.8	103	-42	With RENOLIN ETERNA Clean 46 old deposits, varnish and other oil degradation products can effectively be removed from the turbine oil system before an intended oil change. There will be no impairment of the new filling. Addition of approx. 5 – 10% to the existing turbine oil filling.

Industrial Oils



Product name	Description	Density at 15 °C kg/m³	Flash point Clev. °C	Kin. visc. at 40 °C mm²/s	Kin. visc. at 100 °C mm²/s	VI	Pour-point °C	Main application area
Oils for Transformers								
RENOLIN E 10	High quality, inhibited insulating oil based on naphthenic base oils which can be used in transformers, switches, choking coils, condensers and converters. Excellent dielectric properties and high oxidation stability. Fulfills and surpasses the requirements for insulating oils according to IEC 60296 as well as RWE Power Specification class I.	874	142*	9.5	–	–	<-48	RENOLIN E 10 is used as insulating oil in transformers, switches, choking coils, condensers, converters and similar aggregates, also at low outdoor temperatures (e.g. in outdoor units).
RENOLIN ELTEC	Non-inhibited insulating oil based on naphthenic base oils. Meets the requirements for insulating oils according to IEC 60296.	869	149*	10	–	–	-48	RENOLIN ELTEC is used as insulating oil in transformers, switches, choking coils, condensers, converters and similar aggregates, also at low outdoor temperatures (e.g. in outdoor units).
RENOLIN E 3 (4 x 5 L)	Inhibited switchgear oil based on naphthenic base oils. Especially for the use in outdoor units. Fulfills the requirements according to IEC 60296.	861	100*	3.2	–	–	<-70	RENOLIN E 3 is primarily used in power switches in outdoor units. Even at low ambient temperatures RENOLIN E 3 ensures an excellent flowability. Hence any additional electric heating is not necessary.

* Measured acc. to Pensky Martens (Flashpoint P.M.)

RENOLIN



Product name	Description	Density at 15 °C kg/m³	Flash point Clev. °C	Kin. visc. at 40 °C mm²/s	Kin. visc. at 100 °C mm²/s	VI	Pour-point °C	Main application area
Screw Compressor Oils								
RENOLIN SilverScrew 32	**Range RENOLIN SilverScrew** High-tech air compressor fluids with high oxidative and thermal stability, which allows oil lifetimes of up to 6000h. Surpasses the requirements of DIN 51506:VDL. Corresponds to ISO 6743-3-DAJ. Corresponds to several OEM requirements.	863	235	32	5.5	108	-38	Universal air compressor fluids for oil injected screw, vane and piston compressors.
RENOLIN SilverScrew 46		868	244	46	6.9	105	-36	
RENOLIN SilverScrew 68		870	255	68	9.0	106	-40	
RENOLIN GoldScrew 46	**Range RENOLIN GoldScrew** Outstanding high-tech air compressor fluids with excellent oxidative and thermal stability, which allows oil lifetimes of up to 9000h. Surpasses the requirements of DIN 51506:VDL. Corresponds to ISO 6743-3-DAJ. Corresponds to several OEM requirements.	855	260	46	7.6	131	-39	Universal air compressor fluids for oil injected screw, vane and piston compressors.
RENOLIN GoldScrew 68		871	278	68	9.4	117	-33	

= 20 L (Canister), = 205 L (Drum), = 1000 L (IBC), = Tank Truck

Industrial Oils

Product name	Description	Density at 15 °C kg/m³	Flash point Clev. °C	Kin. visc. at 40 °C mm²/s	Kin. visc. at 100 °C mm²/s	VI	Pour-point °C	Main application area
Screw Compressor Oils								
RENOLIN UNISYN OL 32	**Range RENOLIN UNISYN OL** Fully-synthetic cooling oils for piston and screw compressors based on polyalphaolefins with excellent oxidation stability, outstanding wear protection, good demulsification and excellent viscosity-temperature behaviour. High viscosity index. Excellent air release. Allow service intervals to be extended. Lubricating oils VDL according to DIN 51506 and synthetic hydraulic oils according to DIN 51524-2/3: HLP/HVLP.	838	240	32	6.1	138	<-60	Fully-synthetic screw compressor oils based on PAO for extended oil change intervals even when subject to high thermal loads. Also suitable for highly loaded hydraulic systems. Excellent air release properties. Extended oil drain intervals. **Based on PAO**
RENOLIN UNISYN OL 46		841	260	46	7.9	141	<-60	
RENOLIN UNISYN OL 68		845	260	68	10.6	146	-54	
RENOLIN UNISYN OL 100		848	260	100	14.4	149	-54	
RENOLIN UNISYN OL 150		852	250	150	19.6	150	-47	
RENOLIN SynAir 46 (3 x 10 L)	High performance synthetic air compressor fluid, excellent biodegradability according to OECD 301C > 60%. Excellent thermal and oxidation stability. Guarantee a reliable corrosion protection and compatibility with elastomers	992	271	48	8.7	161	-50	For use in flooded or oil-injected screw air compressors. For applications at high temperatures to reduce oil-related residues, varnish and sludge. Extended oil drain intervals. Biodegradable acc. to OECD 301 C >60%. **Based on PG + Ester**

RENOLIN

Product name	Description	Density at 15 °C kg/m³	Flash point Clev. °C	Kin. visc. at 40 °C mm²/s	Kin. visc. at 100 °C mm²/s	VI	Pour-point °C	Main application area
Piston and Rotary Vane Compressor Oils								
RENOLIN 503	**Range RENOLIN 500** Special ageing-resistant lubricating oils offering minimal coking. Contain additives to improve corrosion protection and ageing stability. VDL lubricating oils according to DIN 51506. For compressor outlet temperatures up to +220 °C. 503: VDL 68 504: VDL 100 505: VDL 150	867	250	68	9.1	109	-18	Compressor oils with excellent anti-ageing behaviour and extremely low coking tendency. For air compressors with end temperatures up to 220 °C. Also for other thermally loaded circulation lubrication systems.
RENOLIN 504		890	280	100	10.7	90	-21	
RENOLIN 505		883	275	150	15.0	100	-15	
RENOLIN VAC 100 F	Special vacuum pump lubricant based on highly refined mineral oils. Does not contain any additives. Extremely low evaporation losses. Suitable for high vacuum.	887	265	100	10.7	89	-12	Can be used in minimum final pressure range from 10^{-3} up to 10^{-4} mbar. Suitable for different compressor types for example piston and rotary compressors.
RENOLIN SE 100 Further ISO VG classes on request	Fully-synthetic air compressor oil based on advanced synthetic ester technology. Fulfills the requirements according to VDL DIN 51506	987	270	100	10.3	81	-42	High temperature stable ester oil for use in vane type and reciprocating compressors, even under severe conditions e.g. high temperatures. Especially suited for compressors where the use of a mineral oil can lead to coking and varnish. **Based on Di-Ester**
Gas Compressor Oils								
RENOLIN LPG 100 (on request)	**Range RENOLIN LPG** Synthetic gas compressor oils based on polyalkylene glycols (PAG). Suitable for process gases, refinery gases (petroleum gases) and other hydrocarbon-based gases (propane, propylene, butane, etc.) and their blends. Attention: For RENOLIN LPG 100 and LPG 185 a drying process has to be applied prior to using them as refrigeration oils.	1002	270	100	16.2	175	-39	RENOLIN LGP 100 and LPG 185 are characterized by a low solubility of hydrocarbon gases in the oil. Due to the use of special PAG base oils, the dilution of the lubricant in operation (drop in viscosity) is minimized. Thus, reliable wear protection and excellent lubricating properties are guaranteed. Selected additives provide additional security in terms of thermal-oxidative stability and wear protection of the lubricant under gas atmosphere. **Based on polyglycol**
RENOLIN LPG 185 (on request)		1012	280	185	29.0	197	-36	

= 20 L (Canister), = 205 L (Drum), = 1000 L (IBC), = Tank Truck

Industrial Oils



Product name	Description	Density at 15 °C kg/m³	Flash point Clev. °C	Kin. visc. at 40 °C mm²/s	Kin. visc. at 100 °C mm²/s	VI	Pour-point °C	Main application area
Mineral Oil based Refrigeration Oils								
RENISO WF 2,3 A	**Range RENISO WF** Special refrigeration oils for use with the refrigerant isobutane (R600a) – highly refined, low flocculation point with R600a, containing additives to improve wear protection and ageing stability. High energy efficiency. DIN 51503: KC, KE.	823	100	2.35	–	–	-42	RENISO WF refrigeration oils are recommended for the lubrication of hermetic refrigerator compressors with the refrigerant isobutane (R600a). Due to special additive systems, the RENISO WF refrigeration oils ensure the formation of a wear-protecting lubricating film at all operating temperatures. RENISO WF refrigeration oils are fully miscible with R600a and also with all other hydrocarbon refrigerants like R290. **Based on special mineral oils**
RENISO WF 5 A (on request)		827	134	5.0	1.7	95	-45	
RENISO WF 7 A (on request)		832	158	7.2	2.2	97	-42	
RENISO WF 10 A (on request)		835	172	9.6	2.6	97	-42	
RENISO WF 15 A (on request)		883	164	15	3.1	–	-51	

RENISO

Product name	Description	Density at 15 °C kg/m³	Flash point Clev. °C	Kin. visc. at 40 °C mm²/s	Kin. visc. at 100 °C mm²/s	VI	Pour-point °C	Main application area
Mineral Oil based Refrigeration Oils								
RENISO KM 32 (20 x 1 L)	**Range RENISO K** Highly refined, **naphthenic mineral oils** with high ageing stability, low pourpoint, excellent low-temperature behaviour and particularly good compatibility with the following refrigerants: ammonia (NH_3), HCFCs (e.g. R22), hydrocarbons (e.g. propane R290, propylene R1270). DIN 51503: KAA, KC, KE.	881	202	32	4.9	63	-45	For all refrigeration systems using ammonia (NH_3) or HCFC refrigerants. RENISO KES 100 is suitable for applications with high evaporation and condensation temperatures, such as air conditioning applications, heat pumps - especially recommended for turbo compressors. **Based on naphthenic base oils**
RENISO KS 46		894	204	46	5.8	47	-42	
RENISO KC 68		894	223	68	7.4	58	-39	
RENISO KES 100		912	218	100	8.4	20	-33	
Fully Synthetic Refrigeration Oils based on Alkyl Benzenes								
RENISO SP 32	**Range RENISO S/SP** Fully synthetic refrigeration oils **based on chemically and thermally stable alkyl benzenes**. RENISO SP 32, 46, 100 and 220 contain highly effective AW additives **(not suitable for NH_3 applications)**. Excellent miscibility and excellent stability with HCFC refrigerants (e.g. R22). DIN 51503: KC, KE .	870	186	32	4.6	31	-51	Particularly good miscibility with HCFC refrigerants, such as R22. Suitable for very low evaporation temperatures down to -80 °C. RENISO SP products are also recommended for use with Drop-In refrigerants (R402A/B, R401A/B, etc.). Due to their excellent stability RENISO S/SP – products are suitable for the lubrication of highly stressed refrigerant compressors. **Based on alkyl benzenes**
RENISO SP 46 (4 x 5 L)		869	190	46	5.3	26	-42	
RENISO SP 100		869	208	95	8.0	11	-33	
RENISO S 3246	RENISO S 3246 and RENISO S 68 **do not contain AW additives** and are suitable for use with HCFC refrigerants, hydrocarbons and NH_3. DIN 51503: KAA, KC, KE.	876	184	40	5.0	17	-42	RENISO S 3246 and RENISO S68 – suitable for R22, hydrocarbons as well as NH_3 applications.
RENISO S 68		871	192	68	6.6	-30	-36	

= 20 L (Canister), = 205 L (Drum), = 1000 L (IBC), = Tank Truck

Industrial Oils

RENISO

Product name	Description	Density at 15 °C kg/m³	Flash point Clev. °C	Kin. visc. at 40 °C mm²/s	Kin. visc. at 100 °C mm²/s	VI	Pour-point °C	Main application area
Fully Synthetic Refrigeration Oils based on Polyol Esters (POE)								
RENISO TRITON SEZ 22 (20 x 1 L) (4 x 5 L)	**Range RENISO TRITON SE/ SEZ** Fully synthetic refrigeration oils **based on synthetic polyol-esters** - especially suitable for non-ozone depleting FC/HFC refrigerants, such as R134a, R404A, R507, R410A, R407C. Also suitable for hydrocarbon refrigerants. As polyolester oils strongly tend to absorb water (hygroscopic behaviour), the contact of these lubricants with air (atmospheric humidity) has to be limited to a minimum. DIN 51503: KD, KE. RENISO TRITON SE/SEZ is also suitable for the use with HFO and HFO/HFC refrigerants.	1003	248	20	4.4	133	-57	The RENISO TRITON SE/SEZ products are perfectly suited for all refrigeration circuits in which chlorine-free refrigerants (HFCs / FCs), e.g. R134a are used. RENISO TRITON SE/SEZ-refrigeration oils are recommended for hermetic, semi-hermetic and open piston compressors, as well as for screw and turbo compressors (depending on viscosity). Comprehensive tests have been performed on the use of RENISO TRITON SE/SEZ products with new refrigerants designed to replace R22, such as R422A/D and R417A. **Based on polyolester**
RENISO TRITON SEZ 32 (20 x 1 L) (4 x 5 L) (3 x 10 L)		1004	250	32	6.1	141	-57	
RENISO TRITON SE 55 (20 x 1 L) (4 x 5 L) (3 x 10 L)		1009	286	55	8.8	137	-48	
RENISO TRITON SEZ 68 (20 x 1 L) (4 x 5 L) (3 x 10 L)		972	258	68	8.9	104	-39	
RENISO TRITON SEZ 80 (20 x 1 L)		992	251	80	10.6	118	-42	
RENISO TRITON SEZ 100 (4 x 5 L)		970	266	100	11.4	100	-30	
RENISO TRITON SE 170 (20 x 1 L) (4 x 5 L) (3 x 10 L)		972	260	173	17.1	106	-27	
RENISO TRITON SE 220 (4 x 5 L)		976	294	220	19.0	98	-27	
RENISO TRITON SEZ 320	Fully synthetic refrigeration oil based on saturated ester, suitable for ORC systems and HFO applications e.g. R1233zd. Also suitable for PFC and HCFC refrigerants.	1016	278	309	33.0	148	-42	
RENISO TRITON CE 500	Fully synthetic refrigeration oil based on saturated, synthetic ester (POE) for high temperature heat pumps for the refrigerant R1234ze, R1336mzZ.	950	221	505	52.1	166	-33	

= 20 L (Canister), = 205 L (Drum), = 1000 L (IBC), = Tank Truck


FUCHS
RENISO
TRITON SE/SEZ
Synthetisches Kältemaschinenöl
Synthetic Refrigeration Oil
Polyolester (POE) Schmierstoff für den Einsatz mit HFKW-, FKW- und HFO-Kältemitteln
Polyol ester (POE) lubricant suitable for the use with HFC, FC and HFO refrigerants
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Made in EU
SEZ 32
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1 l e
SEZ 68
RENISO
PAG 1234

Industrial Oils

Product name	Description	Density at 15 °C kg/m³	Flash point Clev. °C	Kin. visc. at 40 °C mm²/s	Kin. visc. at 100 °C mm²/s	VI	Pour-point °C	Main application area
Fully Synthetic Refrigeration Oils based on Polyalkylene Glycols (PAG) for Hydrocarbon Refrigerants Applications								
RENISO LPG 68 (4 x 5 L)	**Range RENISO LPG** Synthetic refrigeration oil **based on polyalkylene glycols (PAG)**. For the application area of hydrocarbon refrigerants like propane (R290), propene (R1270). Synergetic acting additives improve the properties of the used base oils. Depending on the field of application and type of compressor, different viscosities are used. Controlled hydrocarbon solvency for less viscostiy reduction. DIN 51503 - KE	990	226	68	12.7	189	-48	For piston, scroll and screw compressors (observe operating conditions, e.g. pressure, temperature) **Based on polyglycol**
RENISO LPG 100 (20 x 1 L) (4 x 5 L)		992	228	100.0	18.1	201	-45	
RENISO LPG 150 Packages on request		994	238	149.9	26.2	211	-42	
RENISO LPG 220 (4 x 5 L)		999	240	220.0	36.9	219	-42	
Fully Synthetic Refrigeration Oils based on Synthetic Hydrocarbons (PAO)								
RENISO SYNTH 68	Synthetic refrigeration oil **based on polyalphaolefins (PAO)**. For NH_3 applications and hydrocarbon refrigerants. Also suitable for CO_2 (not miscible with CO_2). DIN 51503: KAA, KB, KE. NSF-H1-approved acceptable as a lubricant with incidental food contact, for use in and around food processing areas.	835	260	68	10.5	142	-57	RENISO SYNTH 68 has been developed especially for the lubrication of highly stressed NH_3 compressors. Excellent stability with NH_3. Excellent low temperature flowability, suitable for evaporation temperatures below -50 °C. Very good thermal stability. Very good lubricity also in hydrocarbon (propane R290, propylene R1270, etc.) and CO_2 applications (not miscible with CO_2). **Based on PAO**
RENISO UltraCool 68	**Range RENISO UltraCool** Refrigeration oil **based on synthetic hydrocarbons**. Particularly developed for ammonia applications. DIN 51503: KAA.	854	250	62	9.1	124	-48	RENISO UltraCool 68 combines high thermal stability (no varnish, no sludge) and low evaporation rate (low oil carry-over/ low oil loss) with good elastomer compatibility (CR, HNBR, NBR).
RENISO UltraCool 100 Packages on request		857	239	108	14.4	136	-46	
Fully Synthetic Refrigeration Oil based on Polyalkylene Glycols (PAG) for NH_3 Applications								
RENISO PG 68 (4 x 5 L)	Fully synthetic refrigeration oil **based on polyalkylene glycols (PAG)**, miscibility gap 10% oil / 90% NH_3: -35 °C. NH_3 – partly miscible refrigeration oil, also suitable for hydrocarbon applications. DIN 51503: KAB, KE.	1044	250	70	14.0	210	-52	RENISO PG 68 is an ultra-dried, synthetic refrigeration oil based on PAG for NH_3 systems which operate on the principle of direct expansion. Suitable for screw and reciprocating piston compressors. RENISO PG 68 is also recommended for the use with hydrocarbon refrigerants. **Warning:** PAG oils are not compatible / miscible with mineral oil. PAG oils are hygroscopic. Avoid any contamination with water. Please contact our FUCHS application engineers. **Based on polyglycol**

RENISO

Product name	Description	Density at 15 °C kg/m³	Flash point Clev. °C	Kin. visc. at 40 °C mm²/s	Kin. visc. at 100 °C mm²/s	VI	Pour-point °C	Main application area
Fully Synthetic Refrigeration Oils based on Polyalkylene Glycols (PAG) for Car A/C Systems								
RENISO PAG 46 (24 x 250 ml) (20 x 1 L) (on request)	**Range RENISO PAG** Synthetic refrigeration oils **based on special polyalkylene glycols (PAG)** for automotive air conditioning units with R134a. Also suitable for hydrocarbon applications. DIN 51503: KAB, KD, KE.	992	240	55	10.6	187	-45	Refrigeration oils based on polyalkylene glycols for application with the refrigerant R134a used in car and truck air conditioning systems (A/C systems). RENISO PAG 100 is especially suitable for vane compressors. RENISO PAG 46 and PAG 100 can be used together with hydrocarbon refrigerant and ammonia. **Based on polyglycol**
RENISO PAG 100 (24 x 250 ml) (20 x 1 L) (on request)		996	240	120	21.0	202	-45	
RENISO PAG 1234 (24 x 250 ml)	Synthetic refrigeration oil **on the basis of double end-capped polyalkylene glycols (PAG)**. For vehicle A/C systems with R1234yf. Also suitable for R134a. DIN 51503: KD.	993	224	44	9.8	218	-45	RENISO PAG 1234 has been newly developed for car air conditioning systems with R1234yf. The product combines both good miscibility properties and high thermo-chemical stability in contact with the refrigerant. Basic fluid and additivation of RENISO PAG 1234 guarantee best lubrication properties and wear protection. **Based on polyglycol**
Fully Synthetic Refrigeration Oil based on Polyalkylene Glycols (PAG) for Heat Pump Applications								
RENISO PAG 460 Packages on request	Special fully synthetic refrigeration oil **based on special polyalkylene glycol (PAG)**.	1001	252	460	72.4	238	-33	For the use in high temperature heat pump systems with hydrocarbon refrigerants, e.g. pentane (R601), iso-pentane (R601a).
Fully Synthetic Refrigeration Oil based on POE for Car A/C Systems in Electric and Hybrid Cars								
RENISO TRITON SEZ 75 AC Packages on request	Synthetic refrigeration oil for electrically driven, hermetic compressors in R1234yf car a/c systems. Also suitable for R134a, **based on special polyolester**. DIN 51503: KD	992	246	75	9.9	113	-42	RENISO TRITON SEZ 75 AC was developed to lubricate electric compressors in car a/c systems. Due to its high electrical resistivity RENISO TRITON SEZ 75 AC is the ideal lubricant to secure the insulation of the electrical compressor parts at any time. Beyond that RENISO TRITON SEZ 75 AC guarantees reliable lubrication, excellent wear protection and safe oil transport. **Based on polyolester**

= Tin, = 20 L (Canister), = 205 L (Drum), = 1000 L (IBC), = Tank Truck

Industrial Oils

Product name	Description	Density at 15 °C kg/m³	Flash point Clev. °C	Kin. visc. at 40 °C mm²/s	Kin. visc. at 100 °C mm²/s	VI	Pour-point °C	Main application area
Fully Synthetic Refrigeration Oils based on Polyalkylene Glycols (PAG) for CO_2 Applications								
RENISO ACC 68 (4 x 5 L)	Synthetic refrigeration oil **based on special, double end-capped PAGs** for transcritical CO_2 applications (industrial and commercial applications). DIN 51503: KB.	992	>220	68	14.1	215	-42	Refrigeration oil based on thermally very stable, double end-capped PAGs for industrial transcritical CO_2 applications (particularly for air conditioning and heat pump applications). Contains special additives to improve wear protection and ageing stability. **Based on polyglycol**
RENISO ACC HV (24 x 250 ml)	Synthetic refrigeration oil **based on special, double end-capped PAGs** for transcritical CO_2 application. Especially developed for automotive A/C sytems. DIN 51503: KB.	991	229	68	14.0	216	-45	RENISO ACC HV was developed in close collaboration with leading compressor manufacturers and OEMs specific for CO_2 air conditioning systems in vehicles. RENISO ACC HV is based on chemical and thermal extremely stable double end-capped PAG fluids with efficient additivation – especially with regard to wear protection. **Based on polyglycol**
Fully Synthetic Refrigeration Oils based on Polyol Esters (POE) for CO_2 Applications								
RENISO C 55 E (20 x 1 L) (4 x 5 L) (on request)	**Range RENISO C** Synthetic refrigeration oils **based on special polyolesters** with anti-wear additives for use with the refrigerant CO_2 (subcritical and transcritical applications). Also suitable for HFC / FC refrigerants. DIN 51503: KB, KD.	1009	286	55	8.8	137	-48	The RENISO C products were especially developed for use in applications with the refrigerant CO_2. Application fields: supermarket refrigeration equipment (subcritical deep-freeze stage of cascade systems and transcritical applications), ship cooling, as well as nearly all fields of industrial and commercial refrigeration. **Based on polyolester**
RENISO C 85 E (20 x 1 L) (4 x 5 L) (3 x 10 L)		993	246	80	10.6	118	-42	
RENISO C 170 E (3 x 10 L)		976	286	172	18.0	116	-33	

= Tin, = 20 L (Canister), = 205 L (Drum), = 1000 L (IBC), = Tank Truck

RENISO, *PLANTO*



Product name	Description	Density at 15 °C kg/m³	Flash point Clev. °C	Kin. visc. at 40 °C mm²/s	Kin. visc. at 100 °C mm²/s	VI	Pour-point °C	Main application area
Environmentally Friendly Industrial and Hydraulic Oils								
PLANTOHYD 15 S*	**Range PLANTOHYD S** Synthetic ester oils with additives to increase ageing stability. Rapidly biodegradable according to OECD 301 B > 60%. High wear protection (FZG stage 12). Surpass the requirements acc. to ISO 15380: "HEES". HVLP acc. to DIN 51524-3 (except TOST test). Awarded the EU Ecolabel (EEL).	893	200	15	4.1	191	-33	Universally useable. Especially recommended for hydraulic systems in sensitive areas. Oil sump temperatures from -30 °C to +90 °C. The change-over guidelines acc. to ISO 15380 must be observed.
PLANTOHYD 22 S*		901	200	22	5.4	198	-33	
PLANTOHYD 32 S*		910	206	32	7.1	194	-36	
PLANTOHYD 46 S*		920	300	46	9.2	187	-45	
PLANTOHYD 68 S*		924	300	68	12.3	181	-36	

* EU Ecolabel

Industrial Oils

Product name	Description	Density at 15 °C kg/m³	Flash point Clev. °C	Kin. visc. at 40 °C mm²/s	Kin. visc. at 100 °C mm²/s	VI	Pour-point °C	Main application area
Environmentally Friendly Industrial and Hydraulic Oils								
PLANTOSYN 32 HVI*	**Range PLANTOSYN HVI** Environmentally friendly hydraulic and circulating oils based on synthetic saturated esters. Rapidly biodegradable acc. to OECD 301 B > 60%. High wear protection, good seal and non-ferrous metal compatibility, excellent oxidation stability. Fulfills the requirements of HEES hydraulic oils according to ISO 15380 and HVLP according to DIN 51524-3 (except TOST test). Awarded the EU Ecolabel (EEL).	915	220	32	6.2	148	-46	Suitable for all mobile and stationary hydraulic systems for which the use of a rapidly biodegradable HEES hydraulic oil according to ISO 15380 is recommended (e.g. in agriculture and forestry). Can be used where unsaturated, synthetic esters have failed. Extension of oil changing intervals possible. Oil sump temperature: -30°C to 100 °C or higher. The change-over guidelines acc. to ISO 15380 must be observed. Approvals: MANNESMANN REXROTH Sauer SUNDSTRAND
PLANTOSYN 46 HVI*		913	280	46	8.2	150	-36	
PLANTOSYN 68 HVI*		916	280	68	10.6	143	-30	
PLANTOSYN 3268 ECO*	PLANTOSYN 3268 ECO is a rapidly biodegradable hydraulic fluid based on synthetic esters. PLANTOSYN 3268 ECO was especially developed for use in high risk areas / environemental high risk areas. Fulfills the minimum requirements on hydraulic oils HEES acc. to ISO 15380 and HVLP acc. to DIN 51524-3 (except TOST test) Awarded the EU Ecolabel (EEL)	920	300	47	9.5	191	-45	PLANTOSYN 3268 ECO is recommended for hydraulic systems in environmental high risk areas. Change-over guidelines acc. to ISO 15380 must be observed.
PLANTOSYN 3268*	Environmentally friendly, high temperature-stable HVI multigrade hydraulic oil based on fully saturated, synthetic ester (HEES), surpasses DIN ISO 15380, > 60% rapidly biodegradable acc. to OECD 301 B. Awarded the EU Ecolabel (EEL).	913	290	46	8.2	154	-36	FUCHS recommendations: Bosch Rexroth AG, CAT BF-1, KRAMER ALLRAD, PALFINGER, SAUER DANFOS, TIMBERJACK, VALMET / KOMATSU FOREST, PONSSE Approvals: FENDT, O&K
PLANTOLUBE POLAR 15 S	**Range PLANTOLUBE POLAR S** PLANTOLUBE POLAR S oils are environmentally friendly, rapidly biodegradable fluids, with an extremely low pourpoint. Thanks to their very high VI they can be used in a wide temperature range. PLANTOLUBE POLAR S oils offer outstanding protection against corrosion and wear. Highly ageing resistant. Surpass the requirements of DIN 51524-3: HVLP (except TOST test) ISO 15380: HEES.	899	156	15	4.1	199	<-48	Gears, bearings, actuators used at extremely low temperatures (e.g. polar regions). Hydraulic systems operated under low temperatures can also be run with oils from the POLAR S range. The changeover guidelines according to ISO 15380 must be observed.
PLANTOLUBE POLAR 22 S		908	166	22	5.7	200	<-51	

* EU Ecolabel

= Tin, = 20 L (Canister), = 205 L (Drum), = 1000 L (IBC), = Tank Truck

PLANTO

Product name	Description	Density at 15 °C kg/m³	Flash point Clev. °C	Kin. visc. at 40 °C mm²/s	Kin. visc. at 100 °C mm²/s	VI	Pour-point °C	Main application area
Environmentally Friendly Synthetic Circulating and Gear Oils								
PLANTOGEAR 100 HVI*	**Range PLANTOGEAR HVI** Environmentally friendly circulation and EP gear oils based on special saturated synthetic ester with high ageing stability, good load carrying capacity and excellent wear protection. The products PLANTOGEAR 100 HVI and 150 HVI meet and exceed the requirements according to DIN 51517-3: CLP -E AGMA 9005 / E02: EP Awarded the EU Ecolabel (EEL).	927	>270	100	13.7	138	-33	Universal CLP gear oils. The products are used in spur, bevel, planetary and worm gears, specially in environmentally sensitive areas, as well as for lubrication of drives in water protection areas, where by oil leaks groundwater and surface water could be endangered. The changeover guidelines according to ISO 15380 must be observed.
PLANTOGEAR 150 HVI*		928	>270	150	19.1	145	-30	
PLANTOGEAR 220 S*	**Range PLANTOGEAR S** Rapidly biodegradable high-performance gear oils based on special, saturated esters. Extremely high thermal and ageing stability, high viscosity index, good viscosity-temperature behaviour. For low-temperature applications. Excellent self- cleaning power due to polar ester structures, reduced friction, excellent wear protection. The PLANTOGEAR S series surpass the requirements of industrial gear oils DIN 51517-3: CLP-E ISO 6743-6 and ISO 12925-1: CKC, CKD, CKE. AGMA 9005/E02: EP Awarded the EU Ecolabel (EEL)	938	280	220	26.2	152	-30	For highly stressed spur, bevel, planetary and worm gears - above all in areas where leakages could present a hazard to soil and to ground or surface water. For high and low application temperatures. High, shearstable viscosity index. Can be used as a self-cleaning gear oil (flushing oil).
PLANTOGEAR 320 S*		943	280	320	35.1	155	-30	
PLANTOGEAR 460 S*		951	280	460	48.0	163	-30	
PLANTOGEAR 680 S*		958	280	680	66.0	170	-30	
Environmentally Friendly Slideway Oils / Lubrication Oils								
PLANTOLUBE CGLP 68 S	Slideway oil based on synthetic esters with very good biodegradability. Prevents stick-slip. Load carrying capacity and wear protection are outstanding.	916	280	68	12.1	170	-33	PLANTOLUBE CGLP 68 S is designed for the use in combination with PLANTOCOOL and PLANTOCUT.
PLANTO TAC 68 (4 x 5 L)	Biodegradable high-performance chain saw oil based on rapeseed oils. Excellent lubrication behaviour, good ageing resistance.	924	>270	55	12.0	216	-39	For the professional use in chain saws. Recommendations: Husqvarna, Stihl, Solo, Dolmar
PLANTOTAC HV 220 N	High-quality adhesive oil based on vegetable oil, environmentally friendly and rapidly biodegradable. PLANTOTAC HV 220 N offers very good VT behaviour, adhesive properties and excellent wear protection. FZG A/8.3/90 failure load stage > 12. 220 N: CG 220	955	>250	249	31.5	169	-36	Predominantly for so-called loss lubrication, such as on non-oil-tight bearings, saw frames, guide ways, joints, bolts, etc.
PLANTOTAC HV 100 S	PLANTOTAC HV-N oil is based on ageing-stable synthetic esters. 100 S: CG 100	924	300	100	17.5	193	-36	Predominantly for so-called loss lubrication, such as on non-oil-tight bearings, saw frames, guide ways, joints, bolts, etc. Especially for higher operating temperatures.

* EU Ecolabel

Industrial Oils



Product name	Description	Density at 15 °C kg/m³	Flash point Clev. °C	Kin. visc. at 40 °C mm²/s	Kin. visc. at 100 °C mm²/s	VI	Pour-point °C	Main application area
Cylinder Oils								
RENOLIN CH 500	**Range RENOLIN CH** High-quality, mineral oil-based cylinder oils. Good thermal stability and low coking. Exceed the requirements of Z lubricating oils according to DIN 51510.	929	318	965	44.0	84	-6	For steam temperatures up to 340 °C in stationary equipments, for steam machines up to 325 °C.
RENOLIN CH 700		927	>290	2020	81.0	98	-15	For highest steam temperatures up to 380 °C, intermittent working steam machines above 325 °C. Specially for old steam locomotives.
Heat Transfer Oils								
RENOLIN THERM 250	**Range RENOLIN THERM** Heat transfer oils based on mineral oils with high thermal stability. High heat transfer coefficients.	892	154	10.2	2.4	–	<-42	Application range: -20 °C to 250 °C (film temperature) **Based on mineral oils**
RENOLIN THERM 320		870	225	43.7	6.5	–	-12	Application range: -10 °C to 320 °C (film temperature) **Based on mineral oils**
RENOLIN THERM 330 S	Synthetic heat transfer oil with very high thermal stability. Mixture of low volatile alkylbenzenes.	864	>190	21	4.1	–	-60	Application range: until 320 °C (film temperature) **Based on synthetic oils**
RENOLIN THERM 380 S	Synthetic heat transfer oil. Extremely high thermal stability. Minimum coking tendency.	1043**	200*	16.5	3.1	–	-34	Application range: until 380 °C (film temperature) **Based on synthetic oils**

* measured according to Pensky-Martens (Flashpoint P.M.)
** Density at 20 °C

RENOLIN

Product name	Description	Density at 15 °C kg/m³	Flash point Clev. °C	Kin. visc. at 40 °C mm²/s	Kin. visc. at 100 °C mm²/s	VI	Pour-point °C	Main application area
Special Sealing Oils for Gasometers								
RENOLIN GAS 68	**Range RENOLIN GAS** RENOLIN GAS are special sealing oils for gasometers. They are based on carefully chosen base oils and contain efficient additives to protect the oils against oxidation and to guarantee a reliable corrosion protection. RENOLIN GAS oils show high compatibility with various gases and contain efficient anti stick-slip components.	898	232	68	7.9	78	-36	RENOLIN GAS oils can be used in various applications. They have a high pumpability and good cold flow behaviour (low pourpoints). Moreover they display very good anti stick-slip characteristics and show very good demulsibility. Especially developed for the use as sealing oils in gasometers.
RENOLIN GAS 70 (on request)		867	245	68	9.1	113	-39	
RENOLIN GAS 150 (on request)		880	266	150	15.4	104	-33	
Pneumatic Oils								
RENOLIN SDL 1808 (4 x 5 L)	Fully synthetic pneumatic oil with high wear and corrosion protection.	1116	140	11	2.2	–	-51	Also for ambient temperatures below -3 °C; prevents freezing of valves and other components contaminated by moisture. **Based on polyglycol**
KOMPRANOL GRÜN (20 x 0.25 L) (10 x 1 L) (4 x 5 L)	Eco-friendly lubricating and preservation fluid for compressed air tools	1083	112	20	2.3	–	-75	For compressed air tools of all types, e.g. pneumatic hammers and chisels, tunnelling machines, pneumatic pile drivers in all industries. Absorbs water condensate without loss of the lubricity.
KOMPRANOL PF 84 (20 x 0.25 L) (10 x 1 L) (4 x 5 L)	Synthetic, eco-friendly oil for compressed air tools.	1083	111	20	2.4	–	-75	Mixture of fully-synthetic oil with additives for protection against corrosion and wear. For lubrication of compressed air tools such as pneumatic hammers and chisels, displacement mole drives, and pneumatic tools in all branches of industries, especially in the construction industry. Picks up condensate without loss of lubricating quality.

* measured according to Pensky-Martens (Flashpoint P.M.)
** Density at 20 °C

= Tin, = 20 L (Canister), = 205 L (Drum), = 1000 L (IBC), = Tank Truck

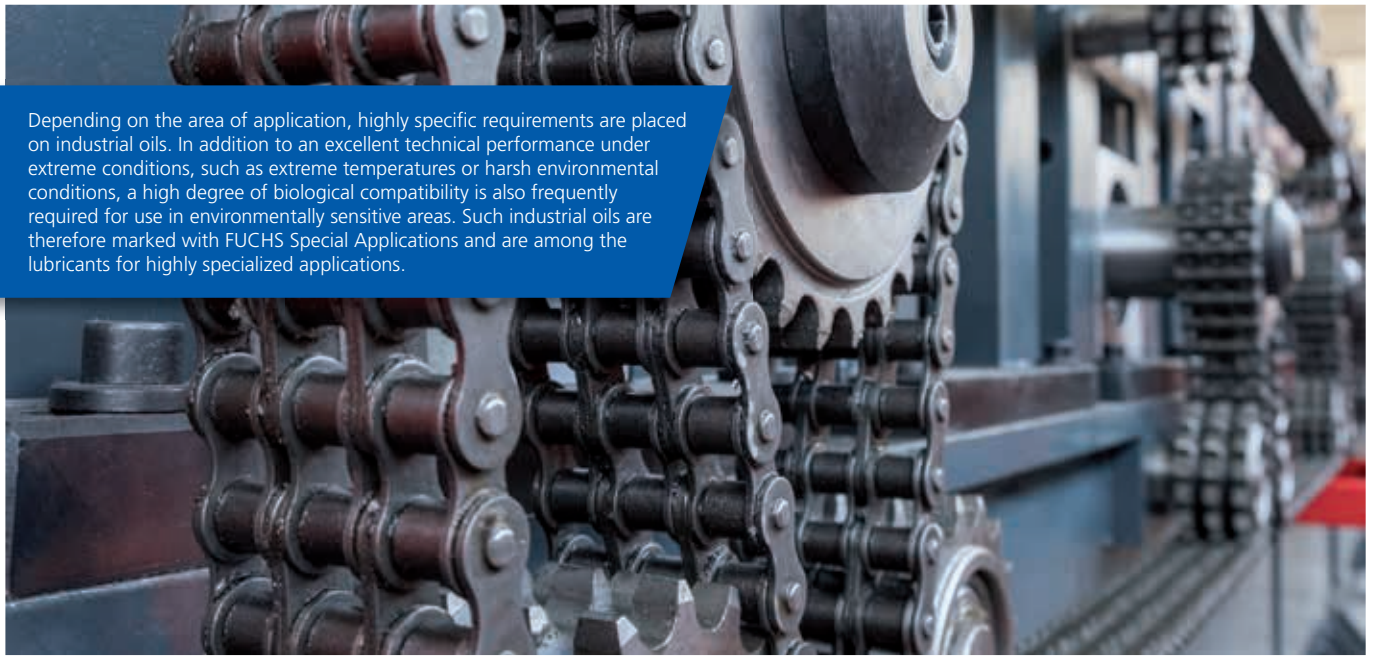
Industrial Oils

Product name	Description	Density at 15 °C kg/m³	Flash point Clev. °C	Kin. visc. at 40 °C mm²/s	Kin. visc. at 100 °C mm²/s	VI	Pour-point °C	Main application area
Test Oils								
Referenzflüssigkeit IRM 901	Reference oils for laboratories	882	243	213	19.1	–	-12	Reference oils for laboratory tests, mainly used for elastomer compatibility tests. Successor products for old ASTM test oils.
Referenzflüssigkeit IRM 902 (1 x 5 L)		935	243	441	18.8	–	–	
Referenzflüssigkeit IRM 903 (1 x 5 L)		920	171	29.5	4.3	–	-33	
RENOLIN FST 101	Leakage test oil concentrate	990	>100	>40	–	–	-33	Fluorescent leak detection concentrate for lubricating and hydraulic oils.
PRÜFFARBSTOFF blau (14 x 1 L)	Leakage test oil concentrate	990	–	–	–	–	–	Blue dye for leak detection in hydraulic and lubricating oils.
RENOLIN ANTI-STICK-SLIP (4 x 5 L)	Universal anti-stick-slip additive	944	270	103	–	–	> -20	RENOLIN Anti-Stick-Slip has been used successfully in hydraulic systems of elevators, forklifts, agricultural machinery, platform lifts, hydraulic vibration dampers, etc. Recommended concentration: 2%
Water-Glycol Coolant Fluids								
RENOLIN MPG 5 MIX 30 IDM	Premixed, ready-to-use water-glycol coolant-fluid with a concentration of 30% mono propylene glycol. The product is colored blue nad is fluorescing. To ensure long lifetime, de-ionized water has been used to dilute the product. Freezing Point [°C]: -11 °C pH value [-]: 8.4 Reserve alkality [0.5 N HCL / 50 g]: 5.0	1028	–	–	–	–	–	Specially developed for the use as special spindle coolant in CNC machinery. The product is recommended for all circulating systems, either for heating or cooling purposes. It also provides good frost protection, good aging stability and good corrosion protection against iron and nonferrous metals.
RENOLIN MPG 5 CONC IDM	Cooling fluid concentrate based on mono propylene glycol and additives. The concentrate has excellent corrosion protection properties, is colored blue and is fluorescing. Easy mixability, good corrosion protection and long lifetime. Freezing Point with 40 vol% [°C]: -17 Freezing Point with 50 vol% [°C]: -26 pH value [-]: 7.8 Reserve alkality [0.5 N HCL / 50 g]: 8.8	1044	>110	16.7	–	–	–	The RENOLIN MPG 5 CONC IDM is recommended for industrial circulation systems as coolant, heating or frost protection. The concentrate has to be mixed with water acc. to the manufacturer to be ready-to-use. A minimum concentration of 33% of RENOLIN MPG 5 CONC IDM has to be ensured.

= 20 L (Canister), = 205 L (Drum), = 1000 L (IBC), = Tank Truck

FUCHS Special Applications
Industrial Oils

RENOLIN



Depending on the area of application, highly specific requirements are placed on industrial oils. In addition to an excellent technical performance under extreme conditions, such as extreme temperatures or harsh environmental conditions, a high degree of biological compatibility is also frequently required for use in environmentally sensitive areas. Such industrial oils are therefore marked with FUCHS Special Applications and are among the lubricants for highly specialized applications.

Product name	Description	Density at 20 °C kg/m³	Flash point Clev. °C	Kin. visc. at 40 °C mm²/s	Kin. visc. at 100 °C mm²/s	VI	Pour-point °C	Main application area
Chain Fluids for Temperatures up to +150 °C								
RENOLIN CHAINLUBE 3080 (4 x 5 L) (205 L)	Mineral oil-based chain lubricant (Old Name: STABYLAN 3080)	920	141	100	8.8	37	-25	For chain drives operating at high humidity, e.g. in docks, escalators, drive and conveying chains. Operating temperature -25 to +80 °C **Base oil: mineral oil**
RENOLIN CHAINLUBE W3880 SPRAY (12 x 400 ml)	Chain lubricant with enhanced wear protection (Old Name: STABYLAN W880 SPRAY)	900	–	20	2.9	139	-54	Mineral oil-based chain spray combined with selected white solid lubricants that ensure very high pressure resistance. RENOLIN CHAINLUBE W3880 SPRAY reduces friction losses and protects against fretting corrosion. Operating temperature -30 to +60°C **Base oil: mineral oil**
RENOLIN CHAINLUBE 2001 (4 x 5 L) 	Semi-synthetic chain lubricant (Old Name: STABYLAN 2001)	910	>230	215	21.1	116	-19	For conveyor and drive chains operating at elevated temperatures e.g. in the chemical industry, mechanical engineering and wood processing. Operating temperature -15 to +150 °C
RENOLIN CHAINLUBE 2001 SPRAY (12 x 400 ml)		795	–	215	21.1	116	-19	**Base oil: semi-synthetic**

FUCHS Special Applications
Industrial Oils

Product name	Description	Density at 20 °C kg/m³	Flash point Clev. °C	Kin. visc. at 40 °C mm²/s	Kin. visc. at 100 °C mm²/s	VI	Pour-point °C	Main application area
Chain Fluids for Temperatures up to +150 °C								
RENOLIN CHAINLUBE MO2080	Semi-synthetic chain lubricant with MoS_2 (Old Name: STABYLAN 2080)	905	>220	408	26.2	86	-15	RENOLIN CHAINLUBE MO 2080 is a semi-synthetic, adhesive chain and sliding surface lubricant containing MoS_2 solid lubricants. It is designed for use in challenging operating conditions. RENOLIN CHAINLUBE MO 2080 is well-proven for the lubrication of press guides in the forging industry. Operating temperature -10 to +120 °C **Base oil: semi-synthetic**
RENOLIN CHAINLUBE G1000 (4 x 5 L)	Chain lubricant with graphite (Old Name: STABYLAN G 1000)	900	158	40	7.7	165	-38	For chain drives of all types in the normal temperature range, e.g. in the automotive industry, chemical industry, mechanical engineering, for transport or conveyor chains, forklift chains and external wire rope lubrication. Operating temperature -30 to +100 °C **Base oil: mineral oil**
RENOLIN CHAINLUBE G1000 SPRAY (12 x 400 ml)		730	–	40	7.7	165	-38	
Chain Fluids for extreme Temperatures from +150 °C (up to 300 °C)								
RENOLIN CHAINLUBE HT MO5301 (4 x 5 L)	Chain lubricant with MoS_2 (Old Name: STABYLAN MO 3001)	920	300	160	18	124	-19	For conveyor and drive chains as well as plain and roller bearings and sliding surfaces particularly for high-temperature operation in furnaces and dryers etc., e.g. in the chemical and automotive industry, in mechanical engineering, wood and plastics processing, packaging systems and in glass industry. Excellent dry running properties. Operating temperature -10 to +220 °C **Base oil: fully synthetic**
RENOLIN CHAINLUBE HT 5000 (4 x 5 L)	Fully synthetic high-temperature chain lubricant with low base oil viscosity (Old Name: STABYLAN 5000)	970	>260	100	12	110	-30	For conveyor and drive chains, stenter frames and dryers in the chemical, engineering and textile industries. Is characterised by very low evaporation losses and does not form any lacquer-like deposits even at increased operating temperatures. Good creep ability due to low base oil viscosity. Operating temperature -20 to +240 °C **Base oil: fully synthetic**
RENOLIN CHAINLUBE HT 5001 (4 x 5 L)	Fully synthetic high-temperature chain lubricant with good paint compatibility (Old Name: STABYLAN 5001)	970	>260	180	16	91	-20	For high-temperature applications for conveyor and drive chains, bearings and sliding surfaces in the chemical, textile technology and raw materials industries. Is characterised by very low evaporation losses and does not form any lacquer-like deposits even at increased operating temperatures. Excellent for lubricating conveyor chains in painting lines in the automotive industry. Operating temperature -15 to +240 °C **Base oil: fully synthetic**
RENOLIN CHAINLUBE HT 5001 SPRAY (12 x 400 ml)		820	–	180	16	91	-20	

RENOLIN

Product name	Description	Density at 20 °C kg/m³	Flash point Clev. °C	Kin. visc. at 40 °C mm²/s	Kin. visc. at 100 °C mm²/s	VI	Pour-point °C	Main application area
Chain Fluids for extreme Temperatures from +150 °C (up to 300 °C)								
RENOLIN CHAINLUBE HT 5006 (4 x 5 L)	Fully synthetic high-temperature chain lubricant with high base oil viscosity (Old Name: STABYLAN 5006)	940	245	3000	136	132	-7	"Chain honey" for largesized conveyor and drive chains, sliding surfaces, cams, bearings and disc cams e.g. in the chemical industry, in mechanical engineering, steel hydraulics and in printing machines. Is characterised by very low evaporation losses and does not form any lacquer-like deposits even at increased operating temperatures. Minimized fling-off behaviour due to high base oil viscosity. Operating temperature 0 to +240 °C **Base oil: fully synthetic**
RENOLIN CHAINLUBE HT 5006 SPRAY (12 x 400 ml)		780	–	3000	136	132	-7	
RENOLIN CHAINLUBE HT 5020	Fully synthetic high-temperature chain lubricant (Old Name: STABYLAN 5020)	970	>250	220	20	107	-42	RENOLIN CHAINLUBE HT 5020 is suitable for high-temperature applications of all types of conveyor and drive chains. RENOLIN CHAINLUBE HT 5020 was especially developed for the lubrication of chains in curing ovens in the production of gypsum board dryers. Operating temperature -20 to +250 °C **Base oil: fully synthetic**
RENOLIN CHAINLUBE HT 6020 (4 x 5 L)	Chain fluid for extremely high temperatures (Old Name: STABYLAN 6020)	980	>280	130	14	105	-39	For minimum quantity lubrication of chains in tempering furnaces for insulation production as well as all types of steel link chains. Is characterised by very low evaporation losses and does not form any lacquerlike deposits even at increased operating temperatures. The high flash point offers maximum safety at high temperatures. Operating temperature -20 to +260 °C **Base oil: fully synthetic**
RENOLIN CHAINLUBE HT 7001 (4 x 5 L)	High performance high temperature chain lubricant (Old Name: STABYLAN 7001)	960	>280	233	26	140	-33	RENOLIN CHAINLUBE HT 7001 maximises the lubrication performance in high temperature chain applications. Exceptionally high thermal stability and very good wear protection properties can significantly increase the running time of components, save energy and reduce the number of oven fires - while at the same time reducing lubricant consumption. Excellent for the lubrication of chains in hardening furnaces in insulation production. Operating temperature -20 to +300 °C **Base oil: fully synthetic**

Density Specification at 20 °C

= Spray Can, = 20 L (Canister), = 205 L (Drum), = 1000 L (IBC), = Tank Truck

FUCHS Special Applications
Industrial Oils

Product name	Description	Density at 20 °C kg/m³	Flash point Clev. °C	Kin. visc. at 40 °C mm²/s	Kin. visc. at 100 °C mm²/s	VI	Pour-point °C	Main application area
Environmentally Friendly Chain Fluids								
RENOLIN CHAINLUBE ECO20 (4 x 5 L)	Biodegradable lubricating fluid (Old Name: STABYLAN ECO 20)	950	>280	95	14	150	-60	For all types of chains and oil-lubricated machine elements, particularly in environmentally sensitive areas characterised by its very good corrosion protection and high water resistance. Operating temperature -40 to +160 °C **Base oil: fully synthetic**
RENOLIN CHAINLUBE ECO W10 (4 x 5 L)	Biodegradable synthetic oil with white solid lubricants (Old Name: STABYLAN ECO W 10)	890	>180	18	–	–	-60	For lubrication of levers, joints, chains and other mechanisms, particularly for oscillating movements. Wherever rapid and selfactivating penetration of the lubricant is required. Operating temperature -20 to +110 °C **Base oil: fully synthetic**
RENOLIN CHAINLUBE ECO W10 SPRAY (12 x 400 ml)		860	12	18	–	–	-60	
RENOLIN CHAINLUBE CG 68	**Range RENOLIN CHAINLUBE CG** Mineral oil-based chain lubricant. Contains additives to increase corrosion protection and wear protection. Good fluidity and high adhesion guarantee safe lubrication of the chain.	877	>210	68	8.7	99	< -20	RENOLIN CHAINLUBE CG oils are used to lubricate conveyor chains. They are also suitable for use in difficult conditions, e.g. at moisture or dust (e.g. in sawmills).
RENOLIN CHAINLUBE CG 150		892	>225	150	14.6	96	< -10	
PLANTO CHAINLUBE CG 68 Advanced Circular Technologies	**Range PLANTO CHAINLUBE CG** Biodegradable ester-based chain oils. They are characterized by very good wear protection, good creeping properties, optimized adhesion and excellent corrosion protection.	924	>295	68	12.4	181	< -30	PLANTOLUBE CHAINLUBE CG oils are used for the lubrication of transport chains, even under difficult conditions such as moisture and dust (e.g. in sawmills or mining), when biodegradable chain oils are required.
PLANTO CHAINLUBE CG 150 Advanced Circular Technologies		928	>270	150	19	145	≤ -30	

PLANTO, RENOLIN, TRAMLUB



Product name	Description	Density at 20 °C kg/m³	Flash point Clev. °C	Kin. visc. at 40 °C mm²/s	Kin. visc. at 100 °C mm²/s	VI	Pour-point °C	Main application area
Lubricants for Rail Vehicles								
TRAMLUB S 3 (10 L) (60 L, 220 L)	Eco-friendly rail and wheel flange lubricating fluid	860	120	165	17	110	-42	For eco-friendly lubrication of rails and wheel flanges of railway vehicles as well as for lubrication of switches. TRAMLUB S 3 is also very suitable for eco-friendly lubrication of chains. Operating temperature -25 to +100 °C **Base oil: fully synthetic**
TRAMLUB S 4 (10 L) (220 L)		840	155	37	6	106	-55	For eco-friendly lubrication of rails and wheel flanges of railway vehicles. Especially suitable for low temperatures. Operating temperature -30 to +100 °C **Base oil: fully synthetic**
TRAMLUB S 5 (10 L) 		920	300	68	12	175	-30	For eco-friendly lubrication of rails and wheel flanges of railway vehicles as well as for reliable lubrication of sliding surfaces of switch plates, biodegradable. Operating temperature -30 to +100 °C **Base oil: fully synthetic**

Density Specification at 20 °C

= Spray Can, = 20 L (Canister), = 205 L (Drum), = 1000 L (IBC), = Tank Truck

FUCHS Special Applications
Industrial Oils



Product name	Description	Density at 20 °C kg/m³	Flash point Clev. °C	Kin. visc. at 40 °C mm²/s	Kin. visc. at 100 °C mm²/s	VI	Pour-point °C	Main application area
Lubricants for Noise Reduction								
CARBAFLO KSP 105 Packages on request	Perfluorinated high-performance lubricating fluid	1700	–	148	18	135	-42	Reduces mechanical noise due to stick-slip effects in the passenger compartment of cars, e.g. leather creaking, squeaking of the instrument panel and interior trim. Operating temperature -40 to +200 °C **Base oil: fully synthetic**
CARBAFLO KSP 105 SPRAY (20 x 100 ml)		1700	–	160	18	135	-42	
CARBAFLO XTR 5F Packages on request	Perfluorinated high-performance lubricating fluid including UV-tracer	1900	–	174	34	242	-63	After the evaporation of the carrier liquid a thin, anti-squeakeffective film remains which can be detected on any surface by a UV lamp. Used to avoid squeaking noise in the vehicle interior and for sealing systems. Operating temperature -40 to +220 °C **Base oil: fully synthetic**
CARBAFLO XTR 5F 80 Packages on request	Perfluorinated high-performance lubricating fluid including UV-tracer	1900	–	174	34	242	-63	After the evaporation of the carrier liquid a thin, anti-squeakeffective film remains which can be detected on any surface by a UV lamp. Used to avoid squeaking noise in the vehicle interior and for sealing systems. The CARBAFLO XTR 5F 80 version offers increased creeping ability when the product is applied. Operating temperature -54 to +220 °C **Base oil: fully synthetic**

Density Specification at 20 °C

= Spray Can, = 20 L (Canister), = 205 L (Drum), = 1000 L (IBC), = Tank Truck

CARBAFLO, GLEITMO

Product name	Description	Density at 20 °C kg/m³	Flash point Clev. °C	Kin. visc. at 40 °C mm²/s	Kin. visc. at 100 °C mm²/s	VI	Pour-point °C	Main application area
Silicone Lubricant / SI-Fluid								
GLEITMO SIL SPRAY (12 x 400 ml)	Silicone lubricant	977	–	730	302	476	-50	GLEITMO SIL SPRAY combines the excellent properties of silicone lubricants with the easy application from a spray can. Water-repellent, not greasy, does not attack plastics and rubber elastomers. For lubrication of telescopic platforms of road finishers, door sealings of vehicles, zippers, snaps fasteners, hinges, precision mechanics. Only available as spray! Operating temperature -40 to +250 °C **Base oil: fully synthetic**
Solid Lubricant Additives / MoS_2								
MOLYPHIDE 10	MoS_2-suspension	920	210	30	5.2	103	-15	MOLYPHIDE 10% is a thermally stable colloidal suspension of highpurity molybdenum disulphide in mineral oil. The product is used as MoS_2 additive concentrate for engine and machine oils. **Base oil: mineral oil**
MOLYPHIDE 20		940	>235	30	5.2	103	-12	MOLYPHIDE 20% is a thermally stable colloidal suspension of highpurity molybdenum disulphide in mineral oil. The product is used as MoS_2 additive concentrate for engine and machine oils. **Base oil: mineral oil**



LUBRICATING GREASES / PASTES

Greases are viscous, tough to solid lubricants. By selecting suitable oils, thickeners and additives, the properties of the lubricating greases can be optimally adjusted for the most diverse applications with the corresponding experience and know-how. For example, there are greases for high or very low temperatures, for applications in vacuum, particularly water-resistant and weatherproof, particularly pressure-resistant or capable of creep, rapidly biodegradable or particularly adhesive greases.

Pastes are consistent lubricants, which contain special solid lubricants to optimise their lubrication performance. It is precisely in the marginal areas of grease lubrication where grease pastes exhibit their exceptional efficiency, e.g. with high loads or rapidly changing directions of movement. They reduce friction and protect against wear.

With the lubricating greases and pastes from FUCHS, you have one of the largest grease ranges on the market - for almost all applications and requirements and for the best possible technical and economical solutions.



Lubricating Greases / Pastes

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Lubricating Greases / Pastes



Product name	Classification DIN 51502 ISO 6743-9	Thickener Base oil	Solid lubricants	NLGI grade	Base oil visc. at 40 °C [mm²/s]	Temperature range [°C]	Approvals, recommendations	Main application area
Multipurpose / Longlife Greases								
LAGERMEISTER HDG 00	–	Calcium Mineral oil	•	00	350	-30 / +120	–	Main application in upper bearings of cone crushers.
	18 kg (Bucket), 45 kg (Hobbock), 180 kg (Drum)							
RENOLIT CA-LZ (Spray can: RENOLIT CA-LZ SPRAY)	KP2K-30 ISO-L-XC(F)CHB 2	Calcium Mineral oil	–	2	700	-30 / +120	–	Strongly adhesive, protects from wear even under extreme conditions, very resistant to water wash-out from metallic surfaces, long-term lubrication of passenger cars and commercial vehicles, construction industry, industrial and agricultural machines.
	20 x 0.4 kg (Pull-Off Cartridge), 12 x 0.5 kg (SR-Cartridge),18 kg (Bucket), 50 kg (Hobbock), 180 kg (Drum)							
RENOLIT FEP 2	KP2N-20 ISO-L-XB(F)DEB 2	Lithium Mineral oil	–	2	200	-20 / +140	–	Steel mills, quarries, construction equipment and forging presses, machine tools.
	12 x 0.4 kg (Pull-Off Cartridge), 18 kg (Bucket), 50 kg (Hobbock), 180 kg (Drum)							
RENOLIT FEP 25	KP2-3N-20 ISO-L-XB(F)DEB 2-3	Lithium Mineral oil	–	2-3	200	-20 / +140	–	Steel mills, quarries, construction equipment and forging presses.
	12 x 0.4 kg (Pull-Off Cartridge)							

Al-X: Aluminium complex; Ca-X: Calcium complex; CaSX: Calcium sulfonate complex; HDK: Gel thickener; Li/Ca: Lithium/Calcium; Li-X: Lithium complex; Synth. NaX: Synthetic sodium complex; PAO: Polyalphaolefine; PFPE: Perfluorpolyether; PU: Polyurea; PTFE: Polytetrafluorethylene

LAGERMEISTER, RENOLIT

Product name	Classification DIN 51502 ISO 6743-9	Thickener Base oil	Solid lubricants	NLGI grade	Base oil visc. at 40 °C [mm²/s]	Temperature range [°C]	Approvals, recommendations	Main application area
Multipurpose / Longlife Greases								
RENOLIT FLM 2	KPF2N-30 ISO-L-XC(F)DEB 2	Lithium Mineral oil	•	2	100	-30 / +140	MAN 285 LI-PF 2	For mechanically loaded lubricating points, grease with MoS_2, agricultural machines, commercial vehicles, construction industry, quarries and mining, rubber and concrete factory.
	12 x 0.4 kg (Pull-Off Cartridge), 12 x 0.5 kg (SR-Cartridge), 18 kg (Bucket), 50 kg (Hobbock), 180 kg (Drum)							
RENOLIT GP 1	K1K-30 ISO-L-XC(F)CEA 1	Lithium Mineral oil	–	1	110	-30 / +120	–	Ageing resistant multipurpose greases with good corrosion protection properties for lubrication of plain and roller bearings, easily pumpable in central lubricating systems.
	18 kg (Bucket)							
RENOLIT GP 2	K2K-30 ISO-L-XC(F)CEA 2	Lithium Mineral oil	–	2	110	-30 / +120	–	
	12 x 0.4 kg (Pull-Off Cartridge), 18 kg (Bucket), 50 kg (Hobbock), 180 kg (Drum)							
RENOLIT GP 3	K3K-30 ISO-L-XC(F)CEA 3	Lithium Mineral oil	–	3	110	-30 / +120	–	
	12 x 0.4 kg (Pull-Off Cartridge), 50 kg (Hobbock), 180 kg (Drum)							
RENOLIT LX 1	–	Li-X Mineral oil	–	1	160	-30 / +160	–	Roller bearings, electric motor bearings, coupling bearings in the automotive sector, construction machines, forging presses.
	12 x 0.4 kg (Pull-Off Cartridge), 18 kg (Bucket), 50 kg (Hobbock), 180 kg (Drum)							
RENOLIT LX 2	–	Li-X Mineral oil	–	2	160	-30 / +160	–	Roller bearings, electric motor bearings, coupling bearings in the automotive sector, construction machines, forging presses, wheel bearings of commercial vehicles , machine tools. Alternative to: Liebherr Spezialfett 9610 Plus, Cat Utility Grease, Volvo Lubricating Grease 97720, JCB Special HP Grease
	12 x 0.4 kg (Pull-Off Cartridge), 12 x 0.5 kg (SR-Cartridge),18 kg (Bucket), 50 kg (Hobbock), 180 kg (Drum)							
RENOLIT LX 3	–	Li-X Mineral oil	–	3	160	-20 / +160	–	Roller bearings, electric motor bearings, coupling bearings in the automotive sector, construction machines, forging presses, wheel bearings of commercial vehicles.
	12 x 0.4 kg (Pull-Off Cartridge), 18 kg (Bucket), 180 kg (Drum)							

Lubricating Greases / Pastes

Product name	Classification DIN 51502 ISO 6743-9	Thickener Base oil	Solid lubricants	NLGI grade	Base oil visc. at 40 °C [mm²/s]	Temperature range [°C]	Approvals, recommendations	Main application area
Multipurpose / Longlife Greases								
RENOLIT LX-PEP 2	KP2N-30 ISO-L-XC(F)DEB 2	Li-X Mineral oil	–	2	170	-30 / +150	MAN 284 Li-H2, MB Approval 265.1, ZF TE-ML 12, Schaeffler Gruppe, VW TL 52 147 X, Interprecise (IDC-Bearings), Deutsche Bahn	Multipurpose grease, wheel bearings of motor vehicles, roller bearings of e-motors, needle bearings of cardan shafts, plain and roller bearings, ventilator grease.
	12 x 0.4 kg (Pull-Off Cartridge), 12 x 0.5 kg (SR-Cartridge), 18 kg (Bucket), 50 kg (Hobbock), 180 kg (Drum)							
RENOLIT LX-PEP 3	KP3N-30 ISO-L-XC(F)DEB 3	Li-X Mineral oil	–	3	170	-30 / +150	Interprecise (IDC-Bearings)	Multipurpose grease, wheel bearings of motor vehicles, roller bearings of e-motors, plain and roller bearings, ventilator grease
	18 kg (Bucket), 180 kg (Drum)							
RENOLIT MP	KP2K-40 ISO-L-XD(F)CEB 2	Lithium Mineral oil	–	2	35	-40 / +120	MB Approval 267.0, DTFR 33B120	Multipurpose grease for lubricating points in passenger cars, commercial vehicles, engines, where constant temperature does not exceed 100 °C, sliding speeds are very low and which are not exposed to high mechanical loads.
	30 x 0.25 kg (Tube), 12 x 0.4 kg (Pull-Off Cartridge), 3 x 5 kg (Bucket), 18 kg (Bucket), 50 kg (Hobbock), 180 kg (Drum)							
RENOLIT MP PLUS	KP2K-30 ISO-L-XC(F)CEB 2	Lithium Mineral oil	–	2	100	-30 / +120	–	High quality EP multipurpose grease with high adhesiveness for the lubrication of plain and roller bearings. Only available in SR-cartridges.
	12 x 0.5 kg (SR-Cartridge)							
RENOLIT MT 2	KP2K-30	PU/ Calcium Base Mineral Oil	–	2	100	-30 / +130	–	RENOLIT MT 2 is ideally suited for the lubrication of plain and roller bearings in construction machinery subjected to severe operating conditions, for all lubrication points. Furthermore suitable for vibration, dry and wet screening, reprocessing units, construction, stone, earth industries, gravel quarries, stone quarries, and mobile recycling equipments. Good alternative to conventional lithium greases. Alternative to: Liebherr Special Grease 9610 Plus.
	12 x 0.5 kg (SR-Cartridge), 18 kg (Bucket)							

LAGERMEISTER, RENOLIT



Product name	Classification DIN 51502 ISO 6743-9	Thickener Base oil	Solid lubricants	NLGI grade	Base oil visc. at 40 °C [mm²/s]	Temperature range [°C]	Approvals, recommendations	Main application area
Greases for Plain and Roller Bearings								
LAGERMEISTER SL	K2-3K-20	Lithium Mineral oil	–	2-3	100	-20 / +120	–	For lubrication of plain and roller bearings at normal operating temperatures in mechanical engineering, and conveyors. It is also suitable as a chassis and sealing grease.
	12 x 0.5 kg (SR-Cartridge), 5 kg (Bucket)							
LAGERMEISTER SLG	KF2K-30	Lithium Mineral oil	•	2	100	-30 / +120	–	
	12 x 0.4 kg (Pull-Off Cartridge), 12 x 0.5 kg (SR-Cartridge)							
LAGERMEISTER TS (Spray can: LAGERMEISTER TS SPRAY)	KP2N-30	Lithium Semi-synth. base oil	–	2	800	-30 / +140	DB-Mat.-Nr. 245467, KHD Humboldt, Wedag International, R.STAHL, Zeppelin Baumaschinen	For plain and roller bearings under difficult operating conditions. Especially recommended for high pressures and low revolutions per minute . Allows longer regreasing intervals when compared to conventional greases. Very good adhesive properties.
	12 x 0.4 kg (Pull-Off Cartridge), 12 x 0.5 kg (SR-Cartridge), 18 kg (Bucket), 45 kg (Hobbock), 180 kg (Drum), 185 kg (Drum)							

Al-X: Aluminium complex; Ca-X: Calcium complex; CaSX: Calcium sulfonate complex; HDK: Gel thickener; Li/Ca: Lithium/Calcium; Li-X: Lithium complex; Synth. NaX: Synthetic sodium complex; PAO: Polyalphaolefine; PFPE: Perfluorpolyether; PU: Polyurea; PTFE: Polytetrafluorethylene

Lubricating Greases / Pastes

Product name	Classification DIN 51502 ISO 6743-9	Thickener Base oil	Solid lubricants	NLGI grade	Base oil visc. at 40 °C [mm²/s]	Temperature range [°C]	Approvals, recommendations	Main application area
Greases for Plain and Roller Bearings								
LAGERMEISTER XXL	KP2P-20	PU Mineral oil	–	2	180	-20 / +160 / +180	FLSmidth MAAG Gear, KHD Humboldt Wedag International, Loesche, Sandvik, SMS Meer, Zeppelin Baumaschinen	Ideally suited for the lubrication of highly-loaded plain and roller bearings on all kinds of construction machinery, especially under harsh operating conditions, high loads and increased temperatures. Allows reduced number of lubricants and increased regreasing intervals.
	12 x 0.4 kg (Pull-Off Cartridge), 12 x 0.5 kg (SR-Cartridge), 18 kg (Bucket), 45 kg (Hobbock), 180 kg (Drum)							
RENOLIT CA-LZ (Spray can: RENOLIT CA-LZ SPRAY)	KP2K-30 ISO-L-XC(F)CHB 2	Calcium Mineral oil	–	2	700	-30 / +120	–	Strongly adhesive, protects from wear even under extreme conditions, very resistant to water wash-out from metallic surfaces, long-term lubrication of passenger cars and commercial vehicles, construction industry, industrial and agricultural machines.
	20 x 0.4 kg (Pull-Off Cartridge), 12 x 0.5 kg (SR-Cartridge),18 kg (Bucket), 50 kg (Hobbock), 180 kg (Drum)							
RENOLIT CSX 15	–	CaSX Mineral oil	–	1-2	440	-20 / +180	A. Kahl Pellet-pressen	Lubrication of high loaded, low speed plain and roller bearings and can be applied when the grease has to meet high demands on corrosion protection and working stability.; is easily pumpable even in long tubes fed by centralised lubrication systems. Typical applications are plain and roller bearings in steel mills, wood pellet presses, paper industry, mining, cement mills, quarries and construction equipment.
	125 ml (FLEX), 12 x 0.4 kg (Cartridge) 18 kg (Bucket), 50 kg (Hobbock), 180 kg (Drum)							
RENOLIT CX-EP 1	KP1N-30 ISO-L-XC(F)DEB 1	Ca-X Mineral oil	–	1	110	-30 / +140	–	In general suitable for high thermal and mechanical loads, especially in the chemical, rubber, tire, steel, quarry and excavation industry. Good water and salt water resistance, also resists to weak acids and caustic solutions. Easily pumpable in central lubricating systems.
	18 kg (Bucket), 50 kg (Hobbock), 180 kg (Drum)							
RENOLIT CX-EP 2	KP2N-30 ISO-L-XC(F)DEB 2	Ca-X Mineral oil	–	2	110	-30 / +140	Hoesch Rothe Erde	
	12 x 0.4 kg (Pull-Off Cartridge), 18 kg (Bucket), 50 kg (Hobbock), 180 kg (Drum)							
RENOLIT CX-HT 2	–	CaSX Mineral oil	•	2	400	-20 / +180	–	Lubrication of high loaded, low speed plain and roller bearings, e.g. for kiln cars, construction machinery, steel mills, coal and ore mills.
	12 x 0.5 kg (SR-Cartridge), 18 kg (Bucket), 180 kg (Drum)							

LAGERMEISTER, RENOLIT

Product name	Classification DIN 51502 ISO 6743-9	Thickener Base oil	Solid lubricants	NLGI grade	Base oil visc. at 40 °C [mm²/s]	Temperature range [°C]	Approvals, recommendations	Main application area
Greases for Plain and Roller Bearings								
RENOLIT CXI 2	–	CaSX Mineral oil	–	2	350	-20 / +160	–	Lubrication of high loaded, low speed plain and roller bearings and can be applied when the grease has to meet high demands on corrosion protection and working stability. Typical applications are plain and roller bearings in steel mills, paper industry, mining, concrete industry, quarries and construction equipment.
	12 x 0.4 kg (Pull-Off Cartridge), 12 x 0.5 kg (SR-Cartridge), 18 kg (Bucket), 50 kg (Hobbock), 180 kg (Drum)							
RENOLIT CX-TOM 15	–	CaSX Semi-synth. base oil	–	1-2	100	-40 / +160	SEW-Eurodrive	Industrial gear bearings, belt conveyors, paper machines, machine tools, mining.
	12 x 0.4 kg (Pull-Off Cartridge), 18 kg (Bucket), 50 kg (Hobbock), 180 kg (Drum)							
RENOLIT FAP 502	–	Li/Ca Mineral oil	–	2	500	-20 / +140	–	For high loaded plain and roller bearings with slow sliding speeds.
	18 kg (Bucket), 50 kg (Hobbock)							
RENOLIT FEP 2	KP2N-20 ISO-L-XB(F)DEB 2	Lithium Mineral oil	–	2	200	-20 / +140	–	Steel mills, quarries, construction equipment and forging presses, machine tools.
	12 x 0.4 kg (Pull-Off Cartridge), 18 kg (Bucket), 50 kg (Hobbock), 180 kg (Drum)							
RENOLIT FEP 25	KP2-3N-20 ISO-L-XB(F)DEB 2-3	Lithium Mineral oil	–	2-3	200	-20 / +140	–	Steel mills, quarries, construction equipment and forging presses.
	12 x 0.4 kg (Pull-Off Cartridge)							
RENOLIT FLM 0	–	Lithium Mineral oil	•	0	100	-30 / +120	–	For mechanically loaded lubricating points, grease with MoS_2, and additives to improve corrosion protection, EP and AW.
	180 kg (Drum)							
RENOLIT FLM 2	KPF2N-30 ISO-L-XC(F)DEB 2	Lithium Mineral oil	•	2	100	-30 / +140	MAN 285 LI-PF 2	For mechanically loaded lubricating points, grease with MoS_2, agricultural machines, commercial vehicles, construction industry, quarries and mining, rubber and concrete factory.
	12 x 0.4 kg (Pull-Off Cartridge), 12 x 0.5 kg (SR-Cartridge), 18 kg (Bucket), 50 kg (Hobbock), 180 kg (Drum)							

Al-X: Aluminium complex; Ca-X: Calcium complex; CaSX: Calcium sulfonate complex; HDK: Gel thickener; Li/Ca: Lithium/Calcium; Li-X: Lithium complex; Synth. NaX: Synthetic sodium complex; PAO: Polyalphaolefine; PFPE: Perfluorpolyether; PU: Polyurea; PTFE: Polytetrafluorethylene

Lubricating Greases / Pastes

Product name	Classification DIN 51502 ISO 6743-9	Thickener Base oil	Solid lubricants	NLGI grade	Base oil visc. at 40 °C [mm²/s]	Temperature range [°C]	Approvals, recommendations	Main application area
Greases for Plain and Roller Bearings								
RENOLIT GP 1	K1K-30 ISO-L-XC(F)CEA 1	Lithium Mineral oil	–	1	110	-30 / +120	–	Ageing resistant multipurpose greases with good corrosion protection properties for lubrication of plain and roller bearings, easily pumpable in central lubricating systems.
18 kg (Bucket)								
RENOLIT GP 2	K2K-30 ISO-L-XC(F)CEA 2	Lithium Mineral oil	–	2	110	-30 / +120	–	
12 x 0.4 kg (Pull-Off Cartridge), 18 kg (Bucket), 50 kg (Hobbock), 180 kg (Drum)								
RENOLIT GP 3	K3K-30 ISO-L-XC(F)CEA 3	Lithium Mineral oil	–	3	110	-30 / +120	–	
12 x 0.4 kg (Pull-Off Cartridge), 50 kg (Hobbock), 180 kg (Drum)								
RENOLIT H 443-HD 88	–	Lithium Mineral oil	–	2-3	110	-30 / +140	Siemens	Roller and friction bearings operating under specific high strain, in particular strain produced by shocks and vibrations e.g. in unbalanced motors, vibrating screens, vibrators, soil tampers and electrical machines. Lubrication of friction bearings via Stauffer grease cups, lubricating nipples or central lubricating systems. High loads within a wide speed range.
20 x 0.4 kg (Pull-Off Cartridge), 12 x 0.5 kg (SR-Cartridge), 18 kg (Bucket), 50 kg (Hobbock), 180 kg (Drum)								
RENOLIT HI-TEMP 100	KPHC2N-50 ISO-L-XE(F)DFB 2	Li-X PAO	–	2	100	-50 / +140	–	Used in a wide temperature range for lubrication of plain and roller bearings of, e.g., electric motors, traction motors, bearings and cardan shafts in polar regions.
12 x 0.38 kg (Pull-Off Cartridge), 18 kg (Bucket)								
RENOLIT HI-TEMP 220	KPHC2N-40 ISO-L-XD(F)DFB 2	Li-X PAO	–	2	220	-40 / +140	–	Used in a wide temperature range for lubrication of plain and roller bearings of, e.g. paper mills (wet sector), truck hub units, and cardan shafts.
12 x 0.38 kg (Pull-Off Cartridge), 18 kg (Bucket), 50 kg (Hobbock), 170 kg (Drum)								
RENOLIT HI-TEMP 460	KPHC2N-40 ISO-L-XD(F)DFB 2	Li-X PAO	–	2	460	-40 / +140	–	Lubrication of plain and roller bearings of conveyor gears (e.g. in open cast mining), pellet presses, paper mills, and for lifetime lubrication in trucks and construction machines.
12 x 0.38 kg (Pull-Off Cartridge), 18 kg (Bucket), 170 kg (Drum)								
RENOLIT HLT 2	KPHC2N-40 ISO-L-XD(F)DBB 2	Lithium Synth. base oil	–	2	100	-40 / +140	–	For lubricating points with high requirements, especially those exposed to fluctuating ambient temperatures, e. g. lifetime lubrication of pneumatic applications, centrifuges, plain and roller bearings
12 x 0.38 kg (Pull-Off Cartridge), 3 x 5 kg (Bucket), 18 kg (Bucket), 180 kg (Drum)								

Al-X: Aluminium complex; Ca-X: Calcium complex; CaSX: Calcium sulfonate complex; HDK: Gel thickener; Li/Ca: Lithium/Calcium; Li-X: Lithium complex; Synth. NaX: Synthetic sodium complex; PAO: Polyalphaolefine; PFPE: Perfluorpolyether; PU: Polyurea; PTFE: Polytetrafluorethylene

RENOLIT

Product name	Classification DIN 51502 ISO 6743-9	Thickener Base oil	Solid lubricants	NLGI grade	Base oil visc. at 40 °C [mm²/s]	Temperature range [°C]	Approvals, recommendations	Main application area
Greases for Plain and Roller Bearings								
RENOLIT LX 1	–	Li-X Mineral oil	–	1	160	-30 / +160	–	Roller bearings, electric motor bearings, coupling bearings in the automotive sector, construction machines, forging presses.
	12 x 0.4 kg (Pull-Off Cartridge), 18 kg (Bucket), 50 kg (Hobbock), 180 kg (Drum)							
RENOLIT LX 2	–	Li-X Mineral oil	–	2	160	-30 / +160	–	Roller bearings, electric motor bearings, coupling bearings in the automotive sector, construction machines, forging presses, wheel bearings of commercial vehicles , machine tools. Alternative to: Liebherr Spezialfett 9610 Plus, Cat Utility Grease, Volvo Lubricating Grease 97720, JCB Special HP Grease
	12 x 0.4 kg (Pull-Off Cartridge), 12 x 0.5 kg (SR-Cartridge),18 kg (Bucket), 50 kg (Hobbock), 180 kg (Drum)							
RENOLIT LX 3	–	Li-X Mineral oil	–	3	160	-20 / +160	–	Roller bearings, electric motor bearings, coupling bearings in the automotive sector, construction machines, forging presses, wheel bearings of commercial vehicles.
	12 x 0.4 kg (Pull-Off Cartridge), 18 kg (Bucket), 180 kg (Drum)							
RENOLIT LX EHD 2 ***NEW***	–	Li-X Semi-synth. base oil	•	2	560	-30 / +140	–	An extreme heavy-duty grease specially developed for extremely high loads at low speeds or oscillating movements. It is ideal for lubricating heavily loaded bushing-bolt connections and sliding bearings in construction, agricultural, and mining vehicles, such as excavators or large wheel loaders. Alternative to: LIEBHERR UNIVERSALFETT 9900, MOTOREX 219.
	12 x 0.4 kg (Pull-Off Cartridge), 12 x 0.5 kg (SR-Cartridge), 18 kg (Bucket), 180 kg (Drum)							
RENOLIT LX-PEP 1/2	KP1-2N -30 ISO-L-XC(F)DEB 1-2	Li-X Mineral oil	–	1-2	170	-30 / +150	–	High speed gears for power tools, e.g. power drill, circular hand saw, jigsaw, etc., needle cups and length adjustments of cardan shafts, plain and roller bearings.
	50 kg (Hobbock), 180 kg (Drum)							
RENOLIT LX-PEP 2	KP2N-30 ISO-L-XC(F)DEB 2	Li-X Mineral oil	–	2	170	-30 / +150	MAN 284 Li-H2, MB Approval 265.1, ZF TE-ML 12, Schaeffler Gruppe, VW TL 52 147 X, Interprecise (IDC-Bearings), Deutsche Bahn	Multipurpose grease, wheel bearings of motor vehicles, roller bearings of e-motors, needle bearings of cardan shafts, plain and roller bearings, ventilator grease.
	12 x 0.4 kg (Pull-Off Cartridge), 12 x 0.5 kg (SR-Cartridge), 18 kg (Bucket), 50 kg (Hobbock), 180 kg (Drum)							

Lubricating Greases / Pastes

Product name	Classification DIN 51502 ISO 6743-9	Thickener Base oil	Solid lubricants	NLGI grade	Base oil visc. at 40 °C [mm²/s]	Temperature range [°C]	Approvals, recommendations	Main application area
Greases for Plain and Roller Bearings								
RENOLIT LX-PEP 3	KP3N-30 ISO-L-XC(F)DEB 3	Li-X Mineral oil	–	3	170	-30 / +150	Interprecise (IDC-Bearings)	Multipurpose grease, wheel bearings of motor vehicles, roller bearings of e-motors, plain and roller bearings, ventilator grease
	18 kg (Bucket), 180 kg (Drum)							
RENOLIT LZR 2 H	KP2N-30 ISO-L-XC(F)DIB 2	Li/Ca Mineral oil	–	2	230	-30 / +140	Baier & Köppel	Premium multipurpose grease, long-term rust prevention, sealing grease, central lubricating systems, sugar refineries, roof tile factories, paper industry, prevent standstill corrosion, hytrel compatibel.
	12 x 0.4 kg (Pull-Off Cartridge), 18 kg (Bucket), 50 kg (Hobbock), 180 kg (Drum)							
RENOLIT MP	KP2K-40 ISO-L-XD(F)CEB 2	Lithium Mineral oil	–	2	35	-40 / +120	MB Approval 267.0, DTFR 33B120	Multipurpose grease for lubricating points in passenger cars, commercial vehicles, engines, where constant temperature does not exceed 100 °C, sliding speeds are very low and which are not exposed to high mechanical loads.
	30 x 0.25 kg (Tube), 12 x 0.4 kg (Pull-Off Cartridge), 3 x 5 kg (Bucket), 18 kg (Bucket), 50 kg (Hobbock), 180 kg (Drum)							
RENOLIT MP PLUS	KP2K-30 ISO-L-XC(F)CEB 2	Lithium Mineral oil	–	2	100	-30 / +120	–	High quality EP multipurpose grease with high adhesiveness for the lubrication of plain and roller bearings. Only available in SR cartridges.
	12 x 0.5 kg (SR-Cartridge)							
RENOLIT PU PEM 2	KPHC 2 N-40 ISO-L-X-DFEB	PU PAO	–	2	62	-40 / +160	–	Lubrication of high-speed electric motors, but also for industrial applications like hot-air blowers, spindle bearings, tumble dryers, black-rubber mixers, paper industry dryers, calander bearings, etc.
	1 kg (Bucket), 18 kg (Bucket)							
RENOLIT PU-FH 300	KP2R-20	PU Mineral oil	–	2	500	-20 / +180	–	Lubricating points exposed to high thermal loads and bearings with slow sliding speeds (asphalt pavers).
	12 x 0.4 kg (Pull-Off Cartridge), 12 x 0.5 kg (SR-Cartridge), 5 kg (Bucket), 18 kg (Bucket), 25 kg (Bucket), 45 kg (Hobbock), 180 kg (Drum)							
RENOLIT PU-GU 2	KP2N-30	PU Mineral oil	–	2	196	-25 / +140	–	Thermally and mechanically loaded roller and plain bearings. Alternative to conventional lithium/lithium complex greases. Alternative to: Liebherr Spezialfett 9610 Plus, Cat Utility Grease, Volvo Lubricating Grease 97720, JCB Special HP Grease
	12 x 0.5 kg (SR-Cartridge), 18 kg (Bucket), 50 kg (Hobbock)							

RENOLIT

Product name	Classification DIN 51502 ISO 6743-9	Thickener Base oil	Solid lubricants	NLGI grade	Base oil visc. at 40 °C [mm²/s]	Temperature range [°C]	Approvals, recommendations	Main application area
Greases for Plain and Roller Bearings								
RENOLIT PU-MA 2	KPFH-C2R-40 ISO-L-XD(F)FEB 2	PU Synth. base oil	•	2	100	-40 / +180	–	Lubrication of electric motors, hot-air blowers, tumble dryers, black-rubber mixers, paper industry dryers, calander bearings, etc.
	12 x 0.4 kg (Pull-Off Cartridge), 18 kg (Bucket)							
RENOLIT S 2	KE1-2G-60 ISO-L-XE(F)BEA 1-2	Lithium Synth. ester	–	1-2	14	-60 / +100	–	Low temperature e.g. electrical motors, instruments, air traffic control systems, refrigerators, air conditioners and transmitter equipment.
	12 x 0.4 kg (Pull-Off Cartridge), 5 kg (Bucket), 50 kg (Hobbock), 180 kg (Drum)							
RENOLIT UNITEMP 2	–	NaX Synth. base oil	–	2	180	-40 / +180	–	Plain and roller bearings at high temperatures, brake slack adjusters of commercial vehicles
	12 x 0.4 kg (Pull-Off Cartridge), 3 x 5 kg (Bucket), 18 kg (Bucket), 180 kg (Drum)							
RENOLIT 300 AL 1	KPF1P-20	Al-X Mineral oil	•	1	320	-20 / +150	–	For plain and roller bearings, guides at highest loads, high temperatures and considerable temperature fluctuations, e.g. in raw materials industry, iron and steel works, chemical industry, sintering plants, calanders, extruders.
	45 kg (Hobbock)							
RENOLIT 300 AL 2	KPF2P-20	Al-X Mineral oil	•	2	320	-20 / +150	–	
	18 kg (Bucket), 45 kg (Hobbock), 185 kg (Drum)							
RENOLIT AX 1	KP1P-20	Al-X Mineral oil	–	1	320	-20 / +150	Palfinger Systems, Sprimag Spritzmaschinenbau	Universal greases for many applications at highest specific loads, high temperatures and and considerable temperature fluctuations. Particularly suitable for central lubrication systems with long feed lines and low diameters.
	18 kg (Bucket), 180 kg (Drum)							
RENOLIT AX 2	KP2P-20	Al-X Mineral oil	–	2	320	-20 / +150	Palfinger Systems, Sprimag Spritzmaschinenbau	
	6 x 1 kg (Tin), 18 kg (Bucket), 45 kg (Hobbock), 185 kg (Drum)							
RENOLIT E/M 1	KPE1P-20	PU Semi-synth. base oil	–	1	150	-20 / +160	ANDRITZ, Bosch Rexroth, KHD Humboldt, Wedag International, NEFF Gewindetriebe	Long-life lubrication of plain and roller bearings, e.g. electric motor bearings in textile machines, ventilator bearings in dryers and kilns, spindle bearings. Lubrication of plastics, elastomers and sealing elements.
	12 x 0.4 kg (Pull-Off Cartridge), 5 kg (Bucket), 18 kg (Bucket), 185 kg (Drum)							
RENOLIT E/M 2	KPE2R-20	PU Semi-synth. base oil	–	2	150	-20 / +180	ANDRITZ, Bosch Rexroth, KHD Humboldt, Wedag International, NEFF Gewindetriebe	
	5 kg (Bucket), 18 kg (Bucket), 45 kg (Hobbock), 185 kg (Drum)							

Al-X: Aluminium complex; Ca-X: Calcium complex; CaSX: Calcium sulfonate complex; HDK: Gel thickener; Li/Ca: Lithium/Calcium; Li-X: Lithium complex; Synth. NaX: Synthetic sodium complex; PAO: Polyalphaolefine; PFPE: Perfluorpolyether; PU: Polyurea; PTFE: Polytetrafluorethylene

FUCHS Special Applications
Lubricating Greases / Pastes

Product name	Classification DIN 51502 ISO 6743-9	Thickener Base oil	Solid lubricants	NLGI grade	Base oil visc. at 40 °C [mm²/s]	Temperature range [°C]	Approvals, recommendations	Main application area
Greases for Plain and Roller Bearings								
GLEITMO SIL 115 F	–	PU Silicone oil	–	00	80	-40 / +200	–	Especially suitable for re-lubrication of GLEITMO SIL 115 L and SIL 115 M at very high temperature.
	1 x 1 kg (Tin), 5 kg (Bucket), 18 kg (Bucket)							
GLEITMO SIL 115 L	–	PU Silicone oil	–	1	80	-40 / +200	–	High temperature grease, plain and roller bearings, e.g. electric motors, conveyor chains, furnace carriages, drying equipment, bearing pairs: metal/metal, metal/plastic, plastic/plastic.
	6 x 0.1 kg (Tube), 6 x 1 kg (Tin), 5 kg (Bucket), 18 kg (Bucket)							
GLEITMO SIL 115 M	–	PU Silicone oil	–	2	80	-30 / +200	–	
	6 x 0.1 kg (Tube), 6 x 1 kg (Tin), 5 kg (Bucket), 18 kg (Bucket)							
GLEITMO SIL 400 L	KSI1R-30 ISO-L-XE(F)FEA 1	Lithium Silicone oil	–	1	80	-30 / +180	–	For slightly to normally loaded roller and friction bearings in electric motors, for joints, conveyor chains, ventilators, dryers, controlling equipment and household appliances. Guarantees a good lubrication to metal/plastic parings.
	6 x 0.1 kg (Tube), 185 kg (Drum)							
GLEITMO SIL 400 M	KSI2R-30 ISO-L-XE(F)FEA 2	Lithium Silicone oil	–	2	80	-30 / +180	–	
	6 x 0.1 kg (Tube), 1 x 1 kg (Tin), 5 kg (Bucket), 18 kg (Bucket)							
PLANTOGEL ECO 2 FS Advanced Circular Technologies	–	Li/Ca Synth. ester	•	2	195	-30 / +120	–	Rapidly biodegradable EP multipurpose grease with solid lubrications for lubrication of plain and roller bearings, e.g. commercial vehicles and construction machinery.
	18 kg (Bucket), 180 kg (Drum)							
PLANTOGEL ECO 2 S Advanced Circular Technologies	ISO-L-XD(L)CEB 2	Li/Ca Synth. ester	–	2	105	-40 / +120	EU Ecolabel DE/027/273 Herrenknecht	Rapidly biodegradable EP multipurpose grease for plain and roller bearing lubrication, e.g. water turbines, construction machinery or in agriculture and forestry. Good pumpability in central lube systems. Also used in labyrinth seals of tunnel boring machines.
	12 x 0.4 kg (Pull-Off Cartridge), 18 kg (Bucket), 50 kg (Hobbock), 180 kg (Drum)							
PLANTOGEL ECO 402 S Advanced Circular Technologies	ISO-L-XC(F)BFB 2	Li/Ca Synth. ester	–	2	240	-35 / +120	EU Ecolabel DE/027/273	Rapidly biodegradable EP multipurpose grease for plain and roller bearing lubrication, e.g. water turbines, construction machinery or in agriculture and forestry. Good pumpability in central lube systems.
	18 kg (Bucket)							

Al-X: Aluminium complex; Ca-X: Calcium complex; CaSX: Calcium sulfonate complex; HDK: Gel thickener; Li/Ca: Lithium/Calcium; Li-X: Lithium complex; Synth. NaX: Synthetic sodium complex; PAO: Polyalphaolefine; PFPE: Perfluorpolyether; PU: Polyurea; PTFE: Polytetrafluorethylene

GLEITMO, PLANTO, RENOLIT

Product name	Classification DIN 51502 ISO 6743-9	Thickener Base oil	Solid lubricants	NLGI grade	Base oil visc. at 40 °C [mm²/s]	Temperature range [°C]	Approvals, recommendations	Main application area
Greases for Plain and Roller Bearings								
RENOLIT GL 1 (Spray can: RENAX GLEIT-SPRAY)	–	Lithium Semi-synth. base oil	–	1	–	-30 / +140	–	Very adhesive, reduces friction and wear, protects from corrosion, temperature stable, noise-suppressing, suitable for plain and roller bearings and for gear boxes, bowden cables, guide rails, sun roofs, etc.
	18 kg (Bucket), 180 kg (Drum)							
RENOLIT HI-SPEED 2	KHCE2K-40 ISO-L-XD(F)CEA 2	Lithium Synth. base oil	–	2	18	-40 / +120	–	For high-speed bearings, n x dm = 1,4 Mio, machine tools and textile spindles, electrical motor, linear guiding.
	1 x 0.5 kg (SR-Cartridge), 170 kg (Drum)							
RENOLIT JP 1619 BluEV TECHNOLOGY	–	Lithium Synth. base oil	–	1	25	-50 / +120	DBL 6804.70, VW TL 52 168, Dana Spicer, Bosch, MAN	EP-grease with additive for improve corrosion protection, ageing resistance and adhesiveness, lubrication of friction points requiring very good sliding behaviour, low start-up resistance, also at low temperature, e.g. rack and pinion steerings, prop shafts, high-speed bearings.
	10 x 1 kg (Tin), 18 kg (Bucket), further packages on request							
RENOLIT POLAR BLACK	–	Lithium PAO	•	1-2	340	-50 / +140	–	Fully synthetic heavy duty all-season grease with solid lubricants for plain and roller bearings of construction machines and mining vehicles exposed to changing ambient temperatures.
	180 kg (Drum)							
RENOLIT ST 8-081/2	–	PTFE PFPE	–	2	510	-20 / +260	–	Do not mix with other lubricants! Surfaces must be free from residual oil and grease! Fully synthetic, thermally stable, resistant to solvents (exception: halocarbon refrigerants), oxidation stable, high load carrying abilities; plain and roller bearings of all industrial sectors, e.g. enamelling lines, drying stoves, machines in the packaging industries, calander bearings, bearings of hot air and smoke gas flaps in power plants.
	6 x 1 kg (Tin)							
GLEITMO XHD 2	KPFHC2R-40	PU Synth. base oil	•	2	290	-40 / +180	–	Smooth, fully synthetic polyurea grease for extreme conditions, such as alternating speeds, temperatures and loads. GLEITMO XHD 2 is especially suitable for bearings of large-size generators of wind turbines and thermally and mechanically highly loaded bearings in various industrial applications.
	12 x 0.4 kg (Pull-Off Cartridge), 4 x 3.540 kg (Service-Cartridge), 5 kg (Bucket), 18 kg (Bucket), 25 kg (Hobbock), 185 kg (Drum)							

BluEV TECHNOLOGY BluEV Technology builds the bridge between existing and new products and their application in conventional vehicles with combustion engines as well as hybrid and electric vehicles.

Lubricating Greases / Pastes



Product name	Classification DIN 51502 ISO 6743-9	Thickener Base oil	Solid lubricants	NLGI grade	Base oil visc. at 40 °C [mm²/s]	Temperature range [°C]	Approvals, recommendations	Main application area
Greases for Gear Boxes								
EASYMESH HTS	–	Inorg. thickener Synth. base oil	–	1-2	300	-30 / +180 / +260	–	Is used if a grease lubrication is required at high temperatures and oil separation and / or carbonising would shorten the re-lubrication intervals, for example for plain and roller bearings in reduction gears.
	12 x 0.5 kg (SR-Cartridge), 5 kg (Bucket), 50 kg (Hobbock), 180 kg (Drum)							
RENOLIT CX-EP 0	GP0N-30	Ca-X Mineral oil	–	0	120	-30 / +140	–	In general suitable for high thermal and mechanical loads, especially in the chemical, rubber, tire, steel, quarry and excavation industry. Good water and salt water resistance, also resists to weak acids and caustic solutions. Easily pumpable in central lubricating systems.
	18 kg (Bucket), 180 kg (Drum)							
RENOLIT EPLITH 00	GP00K-10	Lithium Mineral oil	–	00	420	-10 / +120	Müller-Weingarten Schuler	Lubrication of worm gears, bevel gears, spiral-toothed and straight-toothed gears, e.g. forming presses, machine tools, industrial gears.
	18 kg (Bucket), 180 kg (Drum)							
RENOLIT FLM 0	–	Lithium Mineral oil	•	0	100	-30 / +120	–	For mechanically loaded lubricating points, grease with MoS_2 and additives to improve corrosion protection, EP and AW.
	180 kg (Drum)							

RENOLIT

Product name	Classification DIN 51502 ISO 6743-9	Thickener Base oil	Solid lubricants	NLGI grade	Base oil visc. at 40 °C [mm²/s]	Temperature range [°C]	Approvals, recommendations	Main application area
Greases for Gear Boxes								
RENOLIT LX G 400	GP00N-30	Li-X Semi-synth. base oil	–	00	150	-30 / +140	Ammann Verdichtung, bielomatik Leuze, KHD Humboldt Wedag International, Maschinenfabrik Köppern, Outotec, SMS Meer, ThyssenKrupp Resource Technologies	For gear motors on DIY equipment and machine tools as well as for all types of small gears.
	5 kg (Bucket), 18 kg (Bucket), 45 kg (Hobbock)							
RENOLIT LX P 00	GPHC00P-40	Li-X Synth. base oil	–	00	180	-40 / +160	bielomatik Leuze, ThyssenKrupp Resource Technologies	For lubrication of gears of a high power density. Sealing grease for struts in shock absorbers.
	6 x 1 kg (Tin), 5 kg (Bucket), 18 kg (Bucket), 45 kg (Hobbock), 170 kg (Drum)							
RENOLIT LZR 000	GP00-000G-40	Li/Ca Mineral oil	–	00-000	43	-40 / +110	MB Approval 264.0, MAN 283 LI-P 00/000	Semi-fluid grease for central lubricating systems of commercial vehicles.
	42 x 0,25 kg (Tube), 3 x 5 kg (Bucket), 18 kg (Bucket), 50 kg (Hobbock), 180 kg (Drum)							
RENOLIT SF 7-041	GP000K-30	Lithium Mineral oil	–	000	110	-30 / +120	–	Machine tools, labelling and packaging machines with central lubrication systems, industrial gears.
	10 x 0.45 kg (Tube), 3 x 5 kg (Bucket), 18 kg (Bucket), 50 kg (Hobbock), 180 kg (Drum)							
RENOLIT SO-GFB	GP00H-30	Sodium Mineral oil	–	00	250	-30 / +100	Siemens Flender	Fast rotating gears, gear motors, drum motors, gear couplings.
	18 kg (Bucket), 50 kg (Hobbock), 180 kg (Drum)							
RENOLIT SO-GFO 35	GP0H-30	Sodium Mineral oil	–	0	250	-30 / +100	–	Fast rotating gears, agricultural machines.
	20 x 1 kg (Tin), 18 kg (Bucket), 50 kg (Hobbock), 180 kg (Drum)							
RENOLIT GE 00	GPHC00P-40	PU Synth. base oil	–	00	180	-40 / +160	–	Is used in fast-running small gears. It is characterised by a high mechanical and thermal stability as well as its compatibility with sealings and by its neutrality towards non-ferrous and light metals.
	1 kg (Tin), 18 kg (Bucket), 40 kg (Hobbock), 175 kg (Drum)							

Al-X: Aluminium complex; Ca-X: Calcium complex; CaSX: Calcium sulfonate complex; HDK: Gel thickener; Li/Ca: Lithium/Calcium; Li-X: Lithium complex; Synth. NaX: Synthetic sodium complex; PAO: Polyalphaolefine; PFPE: Perfluorpolyether; PU: Polyurea; PTFE: Polytetrafluorethylene

FUCHS Special Applications
Lubricating Greases / Pastes

Product name	Classification DIN 51502 ISO 6743-9	Thickener Base oil	Solid lubricants	NLGI grade	Base oil visc. at 40 °C [mm²/s]	Temperature range [°C]	Approvals, recommendations	Main application area
Greases for Gear Boxes								
PLANTOGEL ECO 000 S Advanced Circular Technologies	–	Li/Ca Synth. ester	–	00-000	56	-40 / +120	–	Rapidly biodegradable semi-fluid grease for lubrication of plain and roller bearings in commercial vehicles and construction machinery with cen-tral lubrication systems. Also for gear systems which are exposed to low to medium loads.
	18 kg (Bucket)							
RENOLIT LI IDM 000	GP00-000K-30	Lithium Mineral oil	–	00-000	300	-30 / +120	DMG MORI	Machine tools, linear guidance and central lubrication systems
	10 x 1 L (Tube), 5 kg (Bucket), 50 kg (Hobbock),180 kg (Drum)							

Al-X: Aluminium complex; Ca-X: Calcium complex; CaSX: Calcium sulfonate complex; HDK: Gel thickener; Li/Ca: Lithium/Calcium; Li-X: Lithium complex; Synth. NaX: Synthetic sodium complex; PAO: Polyalphaolefine; PFPE: Perfluorpolyether; PU: Polyurea; PTFE: Polytetrafluorethylene

PLANTO, RENOLIT



Product name	Classification DIN 51502 ISO 6743-9	Thickener Base oil	Solid lubricants	NLGI grade	Base oil visc. at 40 °C [mm²/s]	Temperature range [°C]	Approvals, recommendations	Main application area
Rapidly Biodegradable Greases								
PLANTOGEL ECO 0 N Advanced Circular Technologies	ISO-L-XB(F)BEA 0	Calcium Rape seed oil	–	0	36	-20 / +80	–	Rapidely biodegradable semi-fluid grease for lubrication of stone saws and as lubricating grease, e.g. for lock gates or in agriculture and forestry.
	180 kg (Drum)							
PLANTOGEL ECO 1 N Advanced Circular Technologies	ISO-L-XB(F)BEA 1	Calcium Rape seed oil	–	1	36	-20 / +80	EU Ecolabel DE/027/273	Rapidly biodegradable lubricating grease, e.g. for lock gates or in agriculture and forestry.
	18 kg (Bucket), 180 kg (Drum)							
PLANTOGEL ECO 2 N Advanced Circular Technologies	ISO-L-XB(F)BEA 2	Calcium Rape seed oil	–	2	36	-20 / +80	EU Ecolabel DE/027/273 Herrenknecht	Rapidly biodegradable lubricating grease, e.g. for lock gates or in agriculture and forestry. Also used in labyrinth seals of tunnel boring machines.
	18 kg (Bucket), 50 kg (Hobbock), 180 kg (Drum)							

FUCHS Special Applications
Lubricating Greases / Pastes

PLANTO

Product name	Classification DIN 51502 ISO 6743-9	Thickener Base oil	Solid lubricants	NLGI grade	Base oil visc. at 40 °C [mm²/s]	Temperature range [°C]	Approvals, recommendations	Main application area
Rapidly Biodegradable Greases								
PLANTOGEL ECO 000 S Advanced Circular Technologies	–	Li/Ca Synth. ester	–	00-000	56	-40 / +120	–	Rapidly biodegradable semi-fluid grease for lubrication of plain and roller bearings in commercial vehicles and construction machinery with cen-tral lubrication systems. Also for gear systems which are exposed to low to medium loads.
18 kg (Bucket)								
PLANTOGEL ECO 2 FS Advanced Circular Technologies	–	Li/Ca Synth. ester	•	2	195	-30 / +120	–	Rapidly biodegradable EP multipur-pose grease with solid lubrications for lubrication of plain and roller bearings, e.g. commercial vehicles and construc-tion machinery.
18 kg (Bucket), 180 kg (Drum)								
PLANTOGEL ECO 2 S Advanced Circular Technologies	ISO-L-XD(L)CEB 2	Li/Ca Synth. ester	–	2	105	-40 / +120	EU Ecolabel DE/027/273 Herren-knecht	Rapidely biodegradable EP multipur-pose grease for plain and roller bea-ring lubrication, e.g. water turbines, construction machinery or in agricul-ture and forestry. Good pumpability in central lube systems. Also used in labyrinth seals of tunnel boring machines.
12 x 0.4 kg (Pull-Off Cartridge), 18 kg (Bucket), 50 kg (Hobbock), 180 kg (Drum)								
PLANTOGEL ECO 402 S Advanced Circular Technologies	ISO-L-XC(F)BFB 2	Li/Ca Synth. ester	–	2	240	-35 / +120	EU Ecolabel DE/027/273	Rapidely biodegradable EP multipur-pose grease for plain and roller bea-ring lubrication, e.g. water turbines, construction machinery or in agricul-ture and forestry. Good pumpability in central lube systems.
18 kg (Bucket)								

Al-X: Aluminium complex; Ca-X: Calcium complex; CaSX: Calcium sulfonate complex; HDK: Gel thickener; Li/Ca: Lithium/Calcium; Li-X: Lithium complex; Synth. NaX: Synthetic sodium complex; PAO: Polyalphaolefine; PFPE: Perfluorpolyether; PU: Polyurea; PTFE: Polytetrafluorethylene

Lubricating Greases / Pastes

RENOLIT



Product name	Classification DIN 51502 ISO 6743-9	Thickener Base oil	Solid lubricants	NLGI grade	Base oil visc. at 40 °C [mm²/s]	Temperature range [°C]	Approvals, recommendations	Main application area
Greases for Machine Tools								
RENOLIT CX-EP 2	KP2N-30 ISO-L-XC(F)DEB 2	Ca-X Mineral oil	–	2	110	-30 / +140	Hoesch Rothe Erde	In general suitable for high thermal and mechanical loads, especially in the chemical, rubber, tire, steel, quarry and excavation industry. Good water and salt water resistance, also resists to weak acids and caustic solutions. Easily pumpable in central lubricating systems.
	12 x 0.4 kg (Pull-Off Cartridge), 18 kg (Bucket), 50 kg (Hobbock), 180 kg (Drum)							
RENOLIT CX-TOM 15	–	CaSX Semi-synth. base oil	–	1-2	100	-40 / +160	SEW-Eurodrive	Industrial gear bearings, belt conveyors, paper machines, machine tools, mining.
	12 x 0.4 kg (Pull-Off Cartridge), 18 kg (Bucket), 50 kg (Hobbock), 180 kg (Drum)							
RENOLIT EPLITH 00	GP00K-10	Lithium Mineral oil	–	00	420	-10 / +120	Müller-Weingarten Schuler	Lubrication of worm gears, bevel gears, spiral-toothed and straight-toothed gears, e.g. forming presses, machine tools, industrial gears.
	18 kg (Bucket), 180 kg (Drum)							
RENOLIT FEP 2	KP2N-20 ISO-L-XB(F)DEB 2	Lithium Mineral oil	–	2	200	-20 / +140	–	Steel mills, quarries, construction equipment and forging presses, machine tools.
	12 x 0.4 kg (Pull-Off Cartridge), 18 kg (Bucket), 50 kg (Hobbock), 180 kg (Drum)							

Lubricating Greases / Pastes

RENOLIT

Product name	Classification DIN 51502 ISO 6743-9	Thickener Base oil	Solid lubricants	NLGI grade	Base oil visc. at 40 °C [mm²/s]	Temperature range [°C]	Approvals, recommendations	Main application area
Greases for Machine Tools								
RENOLIT LX 2	–	Li-X Mineral oil	–	2	160	-30 / +160	–	Roller bearings, electric motor bearings, coupling bearings in the automotive sector, construction machines, forging presses, wheel bearings of commercial vehicles , machine tools. Alternative to: Liebherr Spezialfett 9610 Plus, Cat Utility Grease, Volvo Lubricating Grease 97720, JCB Special HP Grease
	12 x 0.4 kg (Pull-Off Cartridge), 12 x 0.5 kg (SR-Cartridge), 18 kg (Bucket), 50 kg (Hobbock), 180 kg (Drum)							
RENOLIT SF 7-041	GP000K-30	Lithium Mineral oil	–	000	110	-30 / +120	–	Machine tools, labelling and packaging machines with central lubrication systems, industrial gears.
	10 x 0.45 kg (Tube), 3 x 5 kg (Bucket), 18 kg (Bucket), 50 kg (Hobbock), 180 kg (Drum)							

Al-X: Aluminium complex; Ca-X: Calcium complex; CaSX: Calcium sulfonate complex; HDK: Gel thickener; Li/Ca: Lithium/Calcium; Li-X: Lithium complex; Synth. NaX: Synthetic sodium complex; PAO: Polyalphaolefine; PFPE: Perfluorpolyether; PU: Polyurea; PTFE: Polytetrafluorethylene

FUCHS Special Applications
Lubricating Greases / Pastes

GLEITMO, RENOLIT

Product name	Classification DIN 51502 ISO 6743-9	Thickener Base oil	Solid lubricants	NLGI grade	Base oil visc. at 40 °C [mm²/s]	Temperature range [°C]	Approvals, recommendations	Main application area
Greases for Machine Tools								
GLEITMO WSP 5040	–	CaSX Semi-synth. base oil	•	2	170	-20 / +140 / +1200	COLUMBUS McKINNON Engineered Products (Pfaff-silberblau), NEUERO Industrietechnik für Förderanlagen, Sandvik, ThyssenKrupp Steel Europe	For machine elements of all types subjected to extreme pressures, shock loads and oscillatory movements. It is particularly appropriate if the surrounding area is subject to high humidity or the effects of splash water. For sliding pairings, which have a tendency to stick slip and scuffing (fretting). At low sliding speeds and high pressures as well as where fretting corrosion is present. Application as a high-temperature screw paste up to +1,200 °C.
	24 x 0.1 kg (Tube), 6 x 1 kg (Tin), 12 x 0.5 kg (SR-Cartridge), 5 kg (Bucket), 18 kg (Bucket), 200 kg (Drum)							
RENOLIT HI-SPEED 2	KHCE2K-40 ISO-L-XD(F)CEA 2	Lithium Synth. base oil	–	2	18	-40 / +120	–	For high-speed bearings, n x dm = 1,4 Mio, machine tools and textile spindles, electrical motor, linear guiding.
	1 x 0.5 kg (SR-Cartridge), 170 kg (Drum)							
RENOLIT LI IDM 000	GP00-000K-30	Lithium Mineral oil	–	00-000	300	-30 / +120	DMG MORI	Machine tools, linear guidance and central lubrication systems
	10 x 1 L (Tube), 5 kg (Bucket), 50 kg (Hobbock), 180 kg (Drum)							

Lubricating Greases / Pastes



Product name	Classification DIN 51502 ISO 6743-9	Thickener Base oil	Solid lubricants	NLGI grade	Base oil visc. at 40 °C [mm²/s]	Temperature range [°C]	Approvals, recommendations	Main application area
Greases for Rail Traffic								
RENOLIT HLT 2	KPHC2N-40 ISO-L-XD(F)DBB 2	Lithium Synth. base oil	–	2	100	-40 / +140	–	For lubricating points with high requirements, especially those exposed to fluctuating ambient temperatures, e. g. lifetime lubrication of pneumatic applications, centrifuges, plain and roller bearings
	12 x 0.38 kg (Pull-Off Cartridge), 3 x 5 kg (Bucket), 18 kg (Bucket), 180 kg (Drum)							
RENOLIT LX-PEP 1/2	KP1-2N -30 ISO-L-XC(F)DEB 1-2	Li-X Mineral oil	–	1-2	170	-30 / +150	–	High speed gears for power tools, e.g. power drill, circular hand saw, jigsaw, etc., needle cups and length adjustments of cardan shafts, plain and roller bearings.
	50 kg (Hobbock), 180 kg (Drum)							
RENOLIT LX-PEP 2	KP2N-30 ISO-L-XC(F)DEB 2	Li-X Mineral oil	–	2	170	-30 / +150	MAN 284 Li-H2, MB Approval 265.1, ZF TE-ML 12, Schaeffler Gruppe, VW TL 52 147 X, Interprecise (IDC-Bearings), Deutsche Bahn	Multipurpose grease, wheel bearings of motor vehicles, roller bearings of e-motors, needle bearings of cardan shafts, plain and roller bearings, ventilator grease.
	12 x 0.4 kg (Pull-Off Cartridge), 12 x 0.5 kg (SR-Cartridge), 18 kg (Bucket), 50 kg (Hobbock), 180 kg (Drum)							
RENOLIT LX-PEP 3	KP3N-30 ISO-L-XC(F)DEB 3	Li-X Mineral oil	–	3	170	-30 / +150	Interprecise (IDC-Bearings)	Multipurpose grease, wheel bearings of motor vehicles, roller bearings of e-motors, plain and roller bearings, ventilator grease.
	18 kg (Bucket), 180 kg (Drum)							

RENOLIT

Product name	Classification DIN 51502 ISO 6743-9	Thickener Base oil	Solid lubricants	NLGI grade	Base oil visc. at 40 °C [mm²/s]	Temperature range [°C]	Approvals, recommendations	Main application area
Greases for Rail Traffic								
RENOLIT LX-AB 2 *NEW*	–	Li-X Synth. base oil	–	2	150	-40 / +160	DIN EN 12081 / 12082 SKF	For axle box bearings up to 220 km/h
	50 kg (Hobbock), 180 kg (Drum)							

Al-X: Aluminium complex; Ca-X: Calcium complex; CaSX: Calcium sulfonate complex; HDK: Gel thickener; Li/Ca: Lithium/Calcium; Li-X: Lithium complex; Synth. NaX: Synthetic sodium complex; PAO: Polyalphaolefine; PFPE: Perfluorpolyether; PU: Polyurea; PTFE: Polytetrafluorethylene

FUCHS Special Applications
Lubricating Greases / Pastes

GLEITMO, LOCOLUB, TRAMLUB

Product name	Classification DIN 51502 ISO 6743-9	Thickener Base oil	Solid lubricants	NLGI grade	Base oil visc. at 40 °C [mm²/s]	Temperature range [°C]	Approvals, recommendations	Main application area
Greases for Rail Traffic								
GLEITMO RFL ECO Advanced Circular Technologies	–	Calcium native base oil	•	1	–	-30 / +70	EU Ecolabel DE/027/288	For rail flank lubrication of railroad vehicles. Additional rail head conditioning.
6 x 1 kg (Tin), 18 kg (Bucket), 45 kg (Hobock), 180 kg (Drum)								
LOCOLUB ECO Advanced Circular Technologies	–	Inorg. thickener Synth. base oil	•	000	–	-30 / +80	Baier + Köppel, DB-Mat.-Nr. 517718, ÖBB-Personenverkehr, REBS Zentralschmiertechnik	For wheel flange lubrication on railroad vehicles of all kinds and on portal cranes.
5 kg (Bucket), 15 kg (Bucket), 18 kg (Bucket), 25 kg (Hobbock), 45 kg (Hobbock), 190 kg (Drum), 950 kg (BULK)								
LOCOLUB ECO PLUS Advanced Circular Technologies	–	Calcium native / synth. base oil	•	000	–	-30 / +80	EU Ecolabel DE/027/288, BVG, Delimon	For wheel flange lubrication on railroad vehicles of all kinds and on portal cranes. Additional rail head conditioning.
1 x 1 kg (Tin), 18 kg (Bucket), 50 kg (Hobock), 190 kg (Drum)								
TRAMLUB 384 G PLUS Advanced Circular Technologies	–	Inorg. thickener Synth. base oil	•	< 000	–	-35 / +100	–	For sliding surfaces on switch points in marshalling yards on standard gauge railways, underground and regional express railways, tramways and industrial railways.
5 kg (Bucket), 18 kg (Bucket), 25 kg (Hobbock), 50 kg (Hobbock), 170 kg (Drum)								
TRAMLUB F 234 G	–	Inorg. thickener Synth. base oil	•	00	–	-30 / +100	–	For lubrication of rails and wheel flanges of railway vehicles as well as for switch lubrication.
18 kg (Bucket), 25 kg (Hobbock), 175 kg (Drum)								
TRAMLUB F 234 MOD 2	–	Inorg. thickener Semi-synth. base oil	•	000	–	-25 / +150	Baier + Köppel, DB-Mat.-Nr. 106192, REBS Zentralschmiertechnik, Siemens	For rail and wheel flange lubrication of railroad vehicles.
18 kg (Bucket), 45 kg (Hobbock), 190 kg (Drum), 1000 kg (BULK)								
TRAMLUB SSM ECO	–	Lithium Synth. base oil	•	1-2	–	-40 / +120	CEMAFER Gleisbaumaschinen und -geräte, DB-Mat.-Nr. 783667, Schreck-Mieves	Designed for the lubrication of running edges and flanks of rails used by rail-borne traffic and serves to reduce friction and wear in the wheel/rail contact area.
18 kg (Bucket), 45 kg (Hobbock), 180 kg (Drum)								

Lubricating Greases / Pastes

RENOLIT



Product name	Classification DIN 51502 ISO 6743-9	Thickener Base oil	Solid lubricants	NLGI grade	Base oil visc. at 40 °C [mm²/s]	Temperature range [°C]	Approvals, recommendations	Main application area
Greases for Extreme Low Temperatures								
RENOLIT HI-TEMP 100	KPHC2N-50 ISO-L-XE(F)DFB 2	Li-X PAO	–	2	100	-50 / +140	–	Used in a wide temperature range for lubrication of plain and roller bearings of, e.g. electric motors, traction motors, bearings and cardan shafts in polar regions.
	12 x 0.38 kg (Pull-Off Cartridge), 18 kg (Bucket)							
RENOLIT S 2	KE1-2G-60 ISO-L-XE(F)BEA 1-2	Lithium Synth. ester	–	1-2	14	-60 / +100	–	Low temperature e.g. electrical motors, instruments, air traffic control systems, refrigerators, air conditioners and transmitter equipment.
	12 x 0.4 kg (Pull-Off Cartridge), 5 kg (Bucket), 50 kg (Hobbock)							

Al-X: Aluminium complex; Ca-X: Calcium complex; CaSX: Calcium sulfonate complex; HDK: Gel thickener; Li/Ca: Lithium/Calcium; Li-X: Lithium complex; Synth. NaX: Synthetic sodium complex; PAO: Polyalphaolefine; PFPE: Perfluorpolyether; PU: Polyurea; PTFE: Polytetrafluorethylene

FUCHS Special Applications
Lubricating Greases / Pastes

GLEITMO, RENOLIT

Product name	Classification DIN 51502 ISO 6743-9	Thickener Base oil	Solid lubricants	NLGI grade	Base oil visc. at 40 °C [mm²/s]	Temperature range [°C]	Approvals, recommendations	Main application area
Greases for Extreme Low Temperatures								
GLEITMO SIL 300 M	MSI2P-70	Lithium Silicone oil	–	2	75	-70 / +160	DBL 6812.10 VW TL 767 X	Low temperature grease for electric and electronic equipment, precision machines, sealing grease for radial waves sealing rings, groove rings, sealing rings; lubrication of sealing bellows.
6 x 0.1 kg (Tube), 1 x 1 kg (Tin), 5 kg (Bucket), 18 kg (Bucket)								
RENOLIT JP 1619 BluEV TECHNOLOGY	–	Lithium Synth. base oil	–	1	25	-50 / +120	DBL 6804.70, VW TL 52 168, Dana Spicer, Bosch, MAN	EP-grease with additive for improve corrosion protection, ageing resistance and adhesiveness, lubrication of friction points requiring very good sliding behaviour, low start-up resistance, also at low temperature, e.g. rack and pinion steerings, prop shafts, high-speed bearings.
10 x 1 kg (Tin), 18 kg (Bucket), further packages on request								
RENOLIT POLAR BLACK	–	Lithium PAO	•	1-2	340	-50 / +140	–	Fully synthetic heavy duty all-season grease with solid lubricants for plain and roller bearings of construction machines and mining vehicles exposed to changing ambient temperatures.
180 kg (Drum)								
GLEITMO LT 60	KE1N-50	PU Synth. base oil	–	1	23	-50 / +140	Salzgitter Maschinenbau (SMAG), Sprimag Spritz Maschinenbau	For plain and roller bearings, guides, Open Gears on equipment in the low temperature range, e.g. machines and installations operating out doors in winter service, snow rollers, cable cars, transport installations in cold-storage depots, outdoor escalators. Also suitable for high-speed roller bearings.
6 x 1 kg (Tin), 5 kg (Bucket)								

BluEV TECHNOLOGY BluEV Technology builds the bridge between existing and new products and their application in conventional vehicles with combustion engines as well as hybrid and electric vehicles.

Lubricating Greases / Pastes

GLEITMO



Product name	Classification DIN 51502 ISO 6743-9	Thickener Base oil	Solid lubricants	NLGI grade	Base oil visc. at 40 °C [mm²/s]	Temperature range [°C]	Approvals, recommendations	Main application area
Greases for Extreme High Temperatures								
GLEITMO 821	–	Mineral oil	•	FLUID	–	-20 / +160 / +1200	–	GLEITMO 821 is used for drop forging, hot extrusion, hot rolling, hot bending. Can also be used as thinner for GLEITMO 820.
	1 kg (Tin), 5 kg (Bucket), 25kg (Hobbock)							
PBC 1574 (Spray can: PBC 1574 SPRAY)	–	Inorg. thickener Mineral oil	•	2-3	–	-20 / +160 +1200 (dry lubrication)	–	PBC 1574 is used for the prevention of seizures on screw threads, linkages, pivots, flanges and mating surfaces subject to high temperatures, fretting corrosion, salt water and aggressive environmental media. The product is used to lubricate brake callipers and prevent corrosion of disc brakes. PBC 1574 is not electrically conductive and does not affect the sensors of ABS systems.
	100 x 5.5 g (Pillow), 10 x 0.1 kg (Tube), 12 x 0.225 kg (Tin), 12 x 0.4 kg (Pull-Off Cartridge), 6 x 1 kg (Tin), 5 kg (Bucket), 18 kg (Bucket)							
PBC TP492	–	Inorg. thickener Mineral oil	•	2-3	250	-20 / +150 / +1200 (dry lubrication)	–	As a protective grease PBC TP492 acts as a lubricating seal to prevent ingress of water and corrosive solutions. It may also be used as a jointing compound and anti-squeal medium. Applications can be found in variable pitch blade fans and king pin thrust bearings of heavy trucks, and universal joints. PBC TP492 acts as an anti-fretting agent between contact surfaces with oscillating movements.
	12 x 0.4 kg (Pull-Off Cartridge), 10 x 0.5 kg (Tin), 20 x 1 kg (Tin), 5 kg (Bucket), 25 kg (Hobbock)							

Al-X: Aluminium complex; Ca-X: Calcium complex; CaSX: Calcium sulfonate complex; HDK: Gel thickener; Li/Ca: Lithium/Calcium; Li-X: Lithium complex; Synth. NaX: Synthetic sodium complex; PAO: Polyalphaolefine; PFPE: Perfluorpolyether; PU: Polyurea; PTFE: Polytetrafluorethylene

Lubricating Greases / Pastes

Product name	Classification DIN 51502 ISO 6743-9	Thickener Base oil	Solid lubricants	NLGI grade	Base oil visc. at 40 °C [mm²/s]	Temperature range [°C]	Approvals, recommendations	Main application area
Greases for Extreme High Temperatures								
RENOLIT PU-FH 300	KP2R-20	PU Mineral oil	–	2	500	-20 / +180	–	Lubricating points exposed to high thermal loads and bearings with slow sliding speeds (asphalt pavers).
	12 x 0.4 kg (Pull-Off Cartridge), 18 kg (Bucket), 180 kg (Drum)							
RENOLIT PU-MA 2	KPFH-C2R-40 ISO-L-XD(F)FEB 2	PU Synth. base oil	•	2	100	-40 / +180	–	Lubrication of electric motors, hot-air blowers, tumble dryers, black-rubber mixers, paper industry dryers, calander bearings, etc.
	12 x 0.4 kg (Pull-Off Cartridge), 18 kg (Bucket), 180 kg (Drum)							
RENOLIT UNITEMP 2	–	NaX Synth base oil	–	2	180	-40 / +180	–	Plain and roller bearings at high temperatures, brake slack adjusters of commercial vehicles
	12 x 0.4 kg (Pull-Off Cartridge), 3 x 5 kg (Bucket), 18 kg (Bucket), 180 kg (Drum)							
RENOLIT EHT 2	KPE1-2T-20	PTFE Synth. base oil	–	1-2	160	-20 / +220	Bernd Münstermann	Long-life lubrication of plain and roller bearings subjected to heavy-duty thermal and mechanical loads, e.g. in drying plants, conveying and transportation equipment, film stretching machines etc.
	12 x 0.4 kg (Pull-Off Cartridge), 12 x 0.5 kg (SR-Cartridge), 5 kg (Bucket), 15 kg (Bucket), 25 kg (Hobbock), 45 kg (Hobbock)							
RENOLIT 160	KP2-3P-20	PU Mineral oil	–	2-3	320	-20 / +160	ANDRITZ, ATEK Antriebstechnik Willi Glapiak	For lubrication of plain and roller bearings under difficult conditions in the chemical industry, the steel industry, in mining and in general engineering. For use in ventilators, electric motors, car wheel bearings, clutch bearings, decanter bearings, tread rollers of drying plants etc.
	12 x 0.4 kg (Pull-Off Cartridge), 18 kg (Bucket)							
RENOLIT CC 2-1	KP1R-20	PU Mineral oil	–	1	460	-20 / +180	German Steel Industry Association VDEh (standard SEB 181 255)	For plain and roller bearings operating under the influence of temperature and humidity, e.g. roller bed bearings in continuous casting as well as in the steel and raw materials industry etc.
	12 x 0.4 kg (Pull-Off Cartridge), 10 kg (Bucket), 185 kg (Drum)							
RENOLIT E 2	KPE1-2S-20	PU Synth. base oil	–	1-2	100	-20 / +180 / +1200	Daimler, Eisenmann, EVG Lufttechnik, Sprimag Spritzmaschinenbau	For long-life or lifetime lubrication of thermally highly loaded plain and roller bearings in the chemical industry, textile industry, conveying and drying equipment as well as in KTL installations in the automotive industry.
	12 x 0.4 kg (Pull-Off Cartridge), 12 x 0.5 kg (SR-Cartridge), 6 x 1 kg (Tin), 5 kg, 15 kg (Bucket), 25 kg, 45 kg (Hobbock), 185 kg (Drum)							

Al-X: Aluminium complex; Ca-X: Calcium complex; CaSX: Calcium sulfonate complex; HDK: Gel thickener; Li/Ca: Lithium/Calcium; Li-X: Lithium complex; Synth. NaX: Synthetic sodium complex; PAO: Polyalphaolefine; PFPE: Perfluorpolyether; PU: Polyurea; PTFE: Polytetrafluorethylene

RENOLIT

Product name	Classification DIN 51502 ISO 6743-9	Thickener Base oil	Solid lubricants	NLGI grade	Base oil visc. at 40 °C [mm²/s]	Temperature range [°C]	Approvals, recommendations	Main application area
Greases for Extreme High Temperatures								
RENOLIT PU-FH 300-1	KP1R-20	PU Mineral oil	–	1	460	-20 / +180	FLSmidth MAAG Gear, Josef Fröhling, Loesche, Salzhausener Maschinenbautechnik SALMATEC, Sandvik, SMS Meer, ThyssenKrupp Resource Technologies, Zeppelin Baumaschinen	For plain and roller bearings at high temperatures, e.g. long-life lubrication of roller bearings in electric machines, ventilator bearings, conveyor roller bearings in continuous steel casting plants, pump, blower and compressor equipment.
	45 kg (Hobbock), 185 kg (Drum)							
RENOLIT PU-FH 300	KP2R-20	PU Mineralöl	–	2	460	-20 / +180	FLSmidth MAAG Gear, Josef Fröhling, Loesche, Salzhausener Maschinenbautechnik SALMATEC, Sandvik, SMS Meer, ThyssenKrupp Resource Technologies, Zeppelin Baumaschinen	
	12 x 0.4 kg (Pull-Off Cartridge), 12 x 0.5 kg (SR-Cartridge), 5 kg (Bucket), 18 kg (Bucket), 25 kg (Hobbock), 45 kg (Hobbock), 185 kg (Drum)							

FUCHS Special Applications
Lubricating Greases / Pastes

Product name	Classification DIN 51502 ISO 6743-9	Thickener Base oil	Solid lubricants	NLGI grade	Base oil visc. at 40 °C [mm²/s]	Temperature range [°C]	Approvals, recommendations	Main application area
Greases for Extreme High Temperatures								
GLEITMO 155	–	Synth. base oil	•	1-2	–	-30 / +1200	–	For turbine bolts, high-temperature screws, especially stainless steel screws in the chemical industry, in refineries and power stations. Release agent for bolted flanges in the high-temperature range.
🗍	12 x 0.25 kg (Tin), 6 x 1 kg (Tin)							
GLEITMO 160	–	Al-X Mineral oil	•	2	–	-30 / >1000	FLSmidth MAAG Gear	For lubrication of turbine bolts, high-temperature screws and as release agent for flange connections in the high temperature range.
🗍 🪣	6 x 1 kg (Tin), 18 kg (Bucket)							
GLEITMO 165 (Spray can: GLEITMO 165 SPRAY)	–	Synth. base oil	•	1-2	–	-40 / +1200	VW, Volvo Car Germany	For lubrication of turbine bolts, high-temperature screws and for lubrication of bolts, slide rings, sliding rails at high temperatures. No formation of oxide layers.
🗍 🪣 🛢	12 x 0.25 kg (Tin), 6 x 1 kg (Tin), 5 kg (Bucket), 25 kg (Hobbock)							
GLEITMO 705	–	Synth. base oil	•	2	68	-20 / +1000	–	Lubrication of low speed bearings, bolts, hinges, slipper pads and slide rails on firing, drying and annealing systems. Facing for casting ladles, tools, funnels and spouts in aluminium die casting.
🗍 🪣 🛢	6 x 1 kg (Tin), 5 kg (Bucket), 25 kg (Hobbock)							
GLEITMO 820	–	Mineral oil	•	1-2	–	-20 / +1150	–	GLEITMO 820 is used for drop forging, hot extrusion, hot rolling, hot bending. Also ideal for lubricating the column guides of the presses.
🪣 🛢	5 kg (Bucket), 25 kg (Hobbock), 60 kg (Hobbock)							
GLEITMO SIL 115 F	–	PU Silicone oil	–	00	80	-40 / +200	–	Especially suitable for re-lubrication of GLEITMO SIL 115 L and SIL 115 M at very high temperature
🗍 🪣	1 x 1 kg (Tin), 5 kg (Bucket), 18 kg (Bucket)							
GLEITMO SIL 115 L	–	PU Silicone oil	–	1	80	-40 / +200	–	High temperature grease, plain and roller bearings, e.g. electric motors, conveyor chains, furnace carriages, drying equipment, bearing pairs: metal/metal, metal/plastic, plastic/plastic.
❗ 🗍 🪣	6 x 0.1 kg (Tube), 6 x 1 kg (Tin), 5 kg (Bucket), 18 kg (Bucket)							
GLEITMO SIL 115 M	–	PU Silicone oil	–	2	80	-30 / +200	–	
❗ 🗍 🪣	6 x 0.1 kg (Tube), 6 x 1 kg (Tin), 5 kg (Bucket), 18 kg (Bucket)							
GLEITMO SIL 400 L	KSI1R-30 ISO-L-XE(F)FEA 1	Lithium Silicone oil	–	1	80	-30 / +180	–	For slightly to normally loaded roller and friction bearings in electric motors, for joints, conveyor chains, ventilators, dryers, controlling equipment and household appliances. Guarantees a good lubrication to metal/plastic parings.
❗ 🛢	6 x 0.1 kg (Tube), 180 kg (Drum)							

GLEITMO, RENOLIT

Product name	Classification DIN 51502 ISO 6743-9	Thickener Base oil	Solid lubricants	NLGI grade	Base oil visc. at 40 °C [mm²/s]	Temperature range [°C]	Approvals, recommendations	Main application area
Greases for Extreme High Temperatures								
GLEITMO SIL 400 M	KSI2R-30 ISO-L-XE(F)FEA 2	Lithium Silicone oil	–	2	80	-30 / +180	–	For slightly to normally loaded roller and friction bearings in electric motors, for joints, conveyor chains, ventilators, dryers, controlling equipment and household appliances. Guarantees a good lubrication to metal/plastic parings.
! ☐	6 x 0.1 kg (Tube), 1 x 1 kg (Tin), 5 kg (Bucket), 18 kg (Bucket)							
RENOLIT ST 8-081/2	–	PTFE PFPE	–	2	510	-20 / +260	–	Do not mix with other lubricants! Surfaces must be free from residual oil and grease! Fully synthetic, thermally stable, resistant to solvents (exception: halocarbon refrigerants), oxidation stable, high load carrying abilities; plain and roller bearings of all industrial sectors, e.g. enameling lines, drying stoves, machines in the packaging industries, calander bearings, bearings of hot air and smoke gas flaps in power plants.
☐	6 x 1 kg (Tin)							

Al-X: Aluminium complex; Ca-X: Calcium complex; CaSX: Calcium sulfonate complex; HDK: Gel thickener; Li/Ca: Lithium/Calcium; Li-X: Lithium complex; Synth. NaX: Synthetic sodium complex; PAO: Polyalphaolefine; PFPE: Perfluorpolyether; PU: Polyurea; PTFE: Polytetrafluorethylene

Lubricating Greases / Pastes

RENOLIT



Product name	Classification DIN 51502 ISO 6743-9	Thickener Base oil	Solid lubricants	NLGI grade	Base oil visc. at 40 °C [mm²/s]	Temperature range [°C]	Approvals, recommendations	Main application area
Greases for Central Lubricating Systems								
RENOLIT LX-PEP 2	KP2N-30 ISO-L-XC(F)DEB 2	Li-X Mineral oil	–	2	170	-30 / +150	MAN 284 Li-H2, MB Approval 265.1, ZF TE-ML 12, Schaeffler Gruppe, VW TL 52 147 X, Interprecise (IDC-Bearings), Deutsche Bahn	Multipurpose grease, wheel bearings of motor vehicles, roller bearings of e-motors, needle bearings of cardan shafts, plain and roller bearings, ventilator grease.
	12 x 0.4 kg (Pull-Off Cartridge), 12 x 0.5 kg (SR-Cartridge), 18 kg (Bucket), 50 kg (Hobbock), 180 kg (Drum)							
RENOLIT LZR 000	GP00-000G-40	Li/Ca Mineral oil	–	00-000	43	-40 / +110	MB Approval 264.0, MAN 283 LI-P 00/000	Semi-fluid grease for central lubricating systems of commercial vehicles.
	42 x 0,25 kg (Tube), 3 x 5 kg (Bucket), 18 kg (Bucket), 50 kg (Hobbock), 180 kg (Drum)							
RENOLIT LZR 2 H	KP2N-30 ISO-L-XC(F)DIB 2	Li/Ca Mineral oil	–	2	230	-30 / +160	Baier & Köppel	Premium multipurpose grease, long-term rust prevention, sealing grease, central lubricating systems, sugar refineries, roof tile factories, paper industry, prevent standstill corrosion, hytrel compatible.
	12 x 0.4 kg (Pull-Off Cartridge), 18 kg (Bucket), 50 kg (Hobbock), 180 kg (Drum)							
RENOLIT SF 7-041	GP000K-30	Lithium Mineral oil	–	000	110	-30 / +120	–	Machine tools, labelling and packaging machines with central lubrication systems, industrial gears.
	10 x 0.45 kg (Tube), 3 x 5 kg (Bucket), 18 kg (Bucket), 50 kg (Hobbock), 180 kg (Drum)							

FUCHS Special Applications
Lubricating Greases / Pastes

***PLANTO*, RENOLIT**

Product name	Classification DIN 51502 ISO 6743-9	Thickener Base oil	Solid lubricants	NLGI grade	Base oil visc. at 40 °C [mm²/s]	Temperature range [°C]	Approvals, recommendations	Main application area
Greases for Central Lubricating Systems								
PLANTOGEL ECO 000 S Advanced Circular Technologies	–	Li/Ca Synth. ester	–	00-000	56	-40 / +120	–	Rapidly biodegradable semi-fluid grease for lubrication of plain and roller bearings in commercial vehicles and construction machinery with central lubrication systems. Also for gear systems which are exposed to low to medium loads.
	18 kg (Bucket)							
PLANTOGEL ECO 2 S Advanced Circular Technologies	ISO-L-XD(L)CEB 2	Li/Ca Synth. ester	–	2	105	-40 / +120	EU Ecolabel DE/027/273 Herrenknecht	Rapidly biodegradable EP multipurpose grease for plain and roller bearing lubrication, e.g. water turbines, construction machinery or in agriculture and forestry. Good pumpability in central lube systems. Also used in labyrinth seals of tunnel boring machines.
	12 x 0.4 kg (Pull-Off Cartridge), 18 kg (Bucket), 50 kg (Hobbock), 180 kg (Drum)							
RENOLIT LI IDM 000	GP00-000K-30	Lithium Mineral oil	–	00-000	300	-30 / +120	DMG MORI	Machine tools, linear guidance and central lubrication systems.
	10 x 1 L (Tube), 5 kg (Bucket), 50 kg (Hobbock), 180 kg (Drum)							
RENOLIT POLAR BLACK	–	Lithium PAO	•	1-2	340	-50 / +140	–	Fully synthetic heavy duty all-season grease with solid lubricants for plain and roller bearings of construction machines and mining vehicles exposed to changing ambient temperatures.
	180 kg (Drum)							

Al-X: Aluminium complex; Ca-X: Calcium complex; CaSX: Calcium sulfonate complex; HDK: Gel thickener; Li/Ca: Lithium/Calcium; Li-X: Lithium complex; Synth. NaX: Synthetic sodium complex; PAO: Polyalphaolefine; PFPE: Perfluorpolyether; PU: Polyurea; PTFE: Polytetrafluorethylene

Lubricating Greases / Pastes



Product name	Classification DIN 51502 ISO 6743-9	Thickener Base oil	Solid lubricants	NLGI grade	Base oil visc. at 40 °C [mm²/s]	Temperature range [°C]	Approvals, recommendations	Main application area
Greases with Solid Lubricants								
GLEITMO 720	–	Synth. base oil	•	3	670	-20 / +120	–	GLEITMO 720 is a paste, especially for sealing individual components, clearances or grommets. Based on it´s increased consistency, GLEITMO 720 is suitable to maintain a long-term impermeableness to water under pressure.
	25 kg (Hobbock)							
LAGERMEISTER WHS 2002 (Spray can: LAGERMEISTER WHS 2002 SPRAY)	KPF1-2K-20	Lithium Mineral oil	•	1-2	320	-20 / +120	DB-Mat.-Nr. 685377 u. 685382, Terex Germany, Zeppelin Baumaschinen	For plain and roller bearings operating under extreme conditions (dust, water, vibrations), e.g. conveyors, construction machines, raw material processing machines. For lubrication of plastic crosshead guides on telescopic cranes. Also available as fluid.
	42 x 250 g (Tube), 12 x 0.4 kg (Pull-Off Cartridge), 12 x 0.5 kg (SR-Cartridge), 6 x 1 kg (Tin), 5 kg, 18 kg (Bucket), 45 kg (Hobbock)							
PBC 1574 (Spray can: PBC 1574 SPRAY)	–	Inorg. thickener Mineral oil	•	–	–	-20 / +160 +1200 (dry lubrication)	–	PBC 1574 is used for the prevention of seizures on screw threads, linkages, pivots, flanges and mating surfaces subject to high temperatures, fretting corrosion, salt water and aggressive environmental media. The product is used to lubricate brake callipers and prevent corrosion of disc brakes. PBC 1574 is not electrically conductive and does not affect the sensors of ABS systems.
	100 x 5.5 g (Pillow), 10 x 0.1 kg (Tube), 12 x 0.225 kg (Tin), 12 x 0.4 kg (Pull-Off Cartridge), 6 x 1 kg (Tin), 5 kg (Bucket), 18 kg (Bucket)							

GLEITMO, LAGERMEISTER, RENOLIT

Product name	Classification DIN 51502 ISO 6743-9	Thickener Base oil	Solid lubricants	NLGI grade	Base oil visc. at 40 °C [mm²/s]	Temperature range [°C]	Approvals, recommendations	Main application area
Greases with Solid Lubricants								
PBC TP492	–	Inorg. thickener Mineral oil	•	–	250	-20 / +150 / +1200 (dry lubrication)	–	As a protective grease PBC TP492 acts as a lubricating seal to prevent ingress of water and corrosive solutions. It may also be used as a jointing compound and anti-squeal medium. Applications can be found in variable pitch blade fans and king pin thrust bearings of heavy trucks, and universal joints. PBC TP492 acts as an anti-fretting agent between contact surfaces with oscillating movements.
	12 x 0.4 kg (Pull-Off Cartridge), 5 kg (Bucket)							
RENOLIT CX-HT 2	–	CaSX Mineral oil	•	2	400	-20 / +180	–	Lubrication of high loaded, low speed plain and roller bearings, e.g. for kiln cars, construction machinery, steel mills, coal and ore mills.
	12 x 0.5 kg (SR-Cartridge), 18 kg (Bucket), 180 kg (Drum)							
RENOLIT EP X1	–	Lithium Mineral oil	•	1	1050	-15 / +120	Renk CMD	Heavy duty gear coupling grease, slow-speed, heavy-load bearings
	18 kg (Bucket), 180 kg (Drum)							
RENOLIT FLM 2	KPF2N-30 ISO-L-XC(F)DEB 2	Lithium Mineral oil	•	2	100	-30 / +140	MAN 285 LI-PF 2	For mechanically loaded lubricating points, grease with MoS_2, agricultural machines, commercial vehicles, construction industry, quarries and mining, rubber and concrete factory.
	12 x 0.4 kg (Pull-Off Cartridge), 12 x 0.5 kg (SR-Cartridge), 18 kg (Bucket), 50 kg (Hobbock), 180 kg (Drum)							
RENOLIT PU-MA 2	KPFHC2R-40 ISO-L-XD(F)FEB 2	PU Synth. base oil	•	2	100	-40 / +180	–	Lubrication of electric motors, hot-air blowers, tumble dryers, black-rubber mixers, paper industry dryers, calander bearings, etc.
	12 x 0.4 kg (Pull-Off Cartridge), 18 kg (Bucket), 180 kg (Drum)							
RENOLIT L-TS MO	KPF2N-30	Lithium Semi-synth. base oil	•	2	800	-30 / +140	KHD Humboldt Wedag International, Komatsu Mining Germany, Loesche, SMS Meer, ThyssenKrupp Rothe Erde	For plain and roller bearings under difficult operating conditions. Especially recommended for high pressures and low speeds. Allows longer regreasing intervals when compared to conventional greases.
	12 x 0.5 kg (SR-Cartridge), 18 kg (Bucket), 45 kg (Hobbock), 185 kg (Drum)							

Al-X: Aluminium complex; Ca-X: Calcium complex; CaSX: Calcium sulfonate complex; HDK: Gel thickener; Li/Ca: Lithium/Calcium; Li-X: Lithium complex; Synth. NaX: Synthetic sodium complex; PAO: Polyalphaolefine; PFPE: Perfluorpolyether; PU: Polyurea; PTFE: Polytetrafluorethylene

FUCHS Special Applications
Lubricating Greases / Pastes

Product name	Classification DIN 51502 ISO 6743-9	Thickener Base oil	Solid lubricants	NLGI grade	Base oil visc. at 40 °C [mm²/s]	Temperature range [°C]	Approvals, recommendations	Main application area
Greases with Solid Lubricants								
GLEITMO 100	–	Semi-synth. base oil	•	2	–	-35 / +400	VW, Josef Fröhling, KHD Humboldt Wedag International	Assembly pastes with an extremely large range of applications. For running-in lubrication of heavy-duty plain bearings, slide and guide rails, gear wheels and screw spindles as well as bolt and threaded connections. Facilitates assembly / disassembly and prevents stick-slip. From approx. +140 °C dry lubrication by solid lubricants. Based on the higher MoS_2 share GLEITMO 100 S is suitable for extreme applications.
	6 x 1 kg (Tin), 5 kg (Bucket), 25 kg (Hobbock)							
GLEITMO 100 S (Spray can: GLEITMO 100 S SPRAY)	–	Synth. base oil	•	1	–	-40 / +400	VW, Josef Fröhling, KHD Humboldt Wedag International	
	24 x 0.1 kg (Tube), 6 x 1 kg (Tin), 5 kg (Bucket), 30 kg (Hobbock)							
GLEITMO 155	–	Synth. base oil	•	1-2	–	-30 / +1200	–	For turbine bolts, high-temperature screws, especially stainless steel screws in the chemical industry, in refineries and power stations. Release agent for bolted flanges in the high-temperature range.
	12 x 0.25 kg (Tin), 6 x 1 kg (Tin)							
GLEITMO 1580 V	–	Synth. base oil	•	2	–	-45 / +130	–	Used for lubrication points subject to risk of fretting corrosion - oscillatory movements and vibration like spindles, slowly running worm gear drives and slide shafts.
	5 kg (Bucket), 18 kg (Bucket), 25 kg (Hobbock)							
GLEITMO 160	–	Al-X Mineral oil	•	2	–	-30 / >1000	FLSmidth MAAG Gear	For lubrication of turbine bolts, high-temperature screws and as release agent for flange connections in the high temperature range.
	6 x 1 kg (Tin), 18 kg (Bucket)							
GLEITMO 165 (Spray can: GLEITMO 165 SPRAY)	–	Synth. base oil	•	1-2	–	-40 / +1200	VW, Volvo Car Germany	For lubrication of turbine bolts, high-temperature screws and for lubrication of bolts, slide rings, sliding rails at high temperatures. No formation of oxide layers.
	12 x 0.25 kg (Tin), 6 x 1 kg (Tin), 5 kg (Bucket), 25 kg (Hobbock)							
GLEITMO 577 A	–	Inorg. thickener Synth. base oil	•	1	85	-40 / +180	VW Norm TL 52 160	Special lubricating greases based on a synthetic oil and specially selected white solid lubricants for reducing friction and wear with the material pairings plastic/plastic, plastic/metal and rubber-elastomer/metal. GLEITMO 577 A and GLEITMO 577 C are used to lubricate O-rings seals, plastic adjustment devices and shock absorber seals.
	6 x 1kg (Tin), 5kg (Bucket), 45kg (Hobbock), 180kg (Drum)							
GLEITMO 577 C	–	Inorg. thickener Synth. base oil	•	00	85	-40 / +180	–	
	5 kg (Bucket), 45 kg (Hobbock), 180 kg (Drum)							

GLEITMO

Product name	Classification DIN 51502 ISO 6743-9	Thickener Base oil	Solid lubricants	NLGI grade	Base oil visc. at 40 °C [mm²/s]	Temperature range [°C]	Approvals, recommendations	Main application area
Greases with Solid Lubricants								
GLEITMO 582 (Spray can: GLEITMO 582 SPRAY)	–	Lithium Semi-synth. base oil	•	0	–	-15 / +120	–	High-performance chain grease for low and high-speed power transmitting chains, even where resistance to water, water vapour, acids and lyes is required.
5 L (Canister), 20 L (Can)								
GLEITMO 585 M	–	Lithium Mineral oil	•	2	100	-20 / +120	KARL MAYER Textilmaschinenfabrik, Loesche	For bearings and all types of lubricating points, particularly if they are subject to the risk of fretting corrosion (oscillating movements, vibrations, e.g. bearings on large cardan shafts).
12 x 0.4 kg (Pull-Off Cartridge), 12 x 0.5 kg (SR-Cartridge), 6 x 1 kg (Tin), 5 kg (Bucket), 18 kg (Bucket), 25 kg, 45 kg (Hobbock), 180 kg (Drum)								
GLEITMO 700	–	Synth. base oil	•	1	180	-40 / +400	–	For use in all areas of high-temperature lubrication technology, where oils and greases cannot be used e.g. kiln cab bearings (plain and roller bearings). Also for assembly and running-in processes. From approx. +200 °C dry lubrication by solid lubricants (carrier oil evaporates leaving no residue).
6 x 1 kg (Tin), 5 kg (Bucket)								
GLEITMO 705	–	Synth. base oil	•	2	68	-20 / +1000	–	Lubrication of low speed bearings, bolts, hinges, slipper pads and slide rails on firing, drying and annealing systems. Facing for casting ladles, tools, funnels and spouts in aluminium die casting.
6 x 1 kg (Tin), 5 kg (Bucket), 25 kg (Hobbock)								
GLEITMO 800	–	Lithium Mineral oil	•	2	68	-25 / +100	Daimler	Thin film lubrication where extreme pressures, stick-slip, oscillating movements and fretting corrosion are prevalent. For assembly, household appliances, textile machines and packaging machines.
12 x 0.25 kg (Tin), 6 x 1 kg (Tin), 5 kg (Bucket), 18 kg (Bucket), 250 kg (Drum)								
GLEITMO 805	–	Lithium Semi-synth. base oil	•	2	105	-30 / +110	Bosch Rexroth, Daimler, DB-Mat.-Nr. 823600, Volvo Car Germany	For articulated bearings, spindles, plain bearings, bolts, chucks and screws which are subjected to shock loads and oscillating movements. Other typical fields of application are oscillating pins on construction machinery, telescopic beams of cranes. GLEITMO 805 has proved itself for lubrication in the incremental launching process of bridges.
24 x 0.1 kg (Tube), 12 x 0.44 kg (Pull-Off Cartridge), 12 x 0.5 kg (SR-Cartridge), 6 x 1 kg (Tin), 5 kg, 18 kg (Bucket), 50 kg (Hobbock), 200 kg (Drum)								

Al-X: Aluminium complex; Ca-X: Calcium complex; CaSX: Calcium sulfonate complex; HDK: Gel thickener; Li/Ca: Lithium/Calcium; Li-X: Lithium complex; Synth. NaX: Synthetic sodium complex; PAO: Polyalphaolefine; PFPE: Perfluorpolyether; PU: Polyurea; PTFE: Polytetrafluorethylene

FUCHS Special Applications
Lubricating Greases / Pastes

Product name	Classification DIN 51502 ISO 6743-9	Thickener Base oil	Solid lubricants	NLGI grade	Base oil visc. at 40 °C [mm²/s]	Temperature range [°C]	Approvals, recommendations	Main application area
Greases with Solid Lubricants								
GLEITMO 805 K	–	Lithium synth. base oil	•	2*	130	-45 / +110	Volvo Car Germany	For articulated bearings, spindles, plain bearings, bolts, chucks and screws, which are subjected to shock loads and oscillating movements. Outstanding low temperature behaviour and excellent plastics compatibility.
	12 x 0.4 kg (Pull-Off Cartridge), 6 x 1 kg (Tin), 5 kg (Bucket), 18 kg (Bucket), 50 kg (Hobbock)							
GLEITMO 810	–	Lithium Synth. base oil	•	2	38	-40 / +80	Daimler, KARL MAYER Textilmaschinenfabrik	For ball screw drives, multi-groove profiles, ball bushes, gear couplings, threaded spindles, stainless steel threaded connections, plain bearings, household appliances, textile, office and packaging machines.
	0.1 kg (Tube), 6 x 1 kg (Tin), 5 kg (Bucket), 30 kg (Hobbock), 200 kg (Drum)							
GLEITMO 815 (Spray can: GLEITMO 815 SPRAY)	–	Inorg. thickener Synth. base oil	•	2	115	-45 / +150 / +180	MAN	For ball screw drives, multi-groove profiles, ball bushes, gear couplings, threaded spindles, stainless steel threaded connections, plain bearings, household appliances, textile, office and packaging machines. With extended temperature range (short term up to +180 °C). As a spray, especially suitable for assembly and maintenance.
	24 x 0.1 kg (Tube), 12 x 0.5 kg (SR-Cartridge), 6 x 1 kg (Tin), 5 kg (Bucket), 50 kg (Hobbock), 200 kg (Drum)							
GLEITMO 860	–	Synth. base oil	•	1-2	–	-45 / +140	–	Used for any point of lubrication subject to high requirements, e.g. points of lubrication with the risk of fretting corrosion or exposed to oscillating movements and vibrations. Special benefits will result if applied to heavy-duty planetary roller gears, e.g. in actuators in the automotive industry.
	18 kg (Bucket), 180 kg (Drum)							
GLEITMO WSP 5000	–	CaSX Mineral oil	•	2	350	-20 / +140	–	For lubrication of machine parts such as rolling and plain bearings, axles or shafts subjected to high pressures, shock loads and vibrating or oscillating movements, especially in high ambient humidities or where there is water splashing. For reduction of friction and wear at high and low loads as well as against fretting corrosion and stick-slip.
	12 x 0.4 kg (Pull-Off Cartridge), 5 kg (Bucket), 25 kg (Hobbock), 45 kg (Hobbock)							
GLEITMO WSP 5040 (Spray can: GLEITMO WSP 5040 SPRAY)	–	CaSX Semi-synth. base oil	•	2	170	-20 / +140 / +1200	COLUMBUS McKINNON Engineered Products (Pfaff-silberblau), NEUERO Industrietechnik für Förderanlagen, Sandvik, ThyssenKrupp Steel Europe	For machine elements of all types subjected to extreme pressures, shock loads and oscillatory movements. It is particularly appropriate if the surrounding area is subject to high humidity or the effects of splash water. For sliding pairings, which have a tendency to stick slip and scuffing (fretting). At low sliding speeds and high pressures as well as where fretting corrosion is present. Application as a high-temperature screw paste up to +1,200 °C.
	24 x 0.1 kg (Tube), 6 x 1 kg (Tin), 12 x 0.5 kg (SR-Cartridge), 5 kg (Bucket), 18 kg (Bucket), 200 kg (Drum)							

GLEITMO, PLANTO, RENOLIT

Product name	Classification DIN 51502 ISO 6743-9	Thickener Base oil	Solid lubricants	NLGI grade	Base oil visc. at 40 °C [mm²/s]	Temperature range [°C]	Approvals, recommendations	Main application area
Greases with Solid Lubricants								
MEISSELPASTE	–	Al-X Mineral oil	•	2	–	-20 / +1100	BEKA, DELIMON, SKF-Lincoln	Copper-coloured mineral oil-based paste with aluminium complex soap and solid lubricants to lubricate socket tools and bushings of pneumatic and compressed air tools with weights ranging from 75 to 6,000 kg, pneumatic drills and other power tools. Can also be used under water and at high temperatures.
12 x 0.4 kg (Pull-Off Cartridge), 30 x 0.5 kg (SR-Cartridge), 6 x 1 kg (Tin), 5 kg (Bucket), 45 kg (Hobbock), 190 kg (Drum)								
PLANTOGEL ECO 2 FS Advanced Circular Technologies	–	Li/Ca Synth. ester	•	2	195	-30 / +120	–	Rapidly biodegradable EP multipurpose grease with solid lubrications for lubrication of plain and roller bearings, e.g. commercial vehicles and construction machinery.
18 kg (Bucket), 180 kg (Drum)								
RENOLIT FOL 2	–	Lithium PAO	•	2	110	-10 / +21	MPA Stuttgart approved	Very ageing resistant, grease for sliding films in engineering, low sliding speed.
18 kg (Bucket)								
RENOLIT LX-OTP 2	–	Li-X Polyglycol	•	1-2	360	-40 / +160	MAN	Lubrication of MAN knuckle pins.
12 x 0.4 kg (Pull-Off Cartridge), further packages on request								
RENOLIT POLAR BLACK	–	Lithium PAO	•	1-2	340	-50 / +140	–	Fully synthetic heavy duty all-season grease with solid lubricants for plain and roller bearings of construction machines and mining vehicles exposed to changing ambient temperatures.
180 kg (Drum)								
RENOLIT TFL 2	–	Lithium PAO	•	2	110	-40 / +140	–	With PTFE, for slide-pairs with and without plastic components.
18 kg (Bucket)								
GLEITMO TA	KPF1-2N-40	Lithium Semi-synth. base oil	•	1-2	200	-40 / +140	–	STABYL TA is a semi-synthetic special grease based on lithium soap. Its special gliding properties are achieved by a combination of synergetically effective solid lubricants.
12 x 0.4 kg (Lube-Shuttle Cartridge), 5 kg (Bucket), 18 kg (Bucket), 180 kg (Drum)								

* Also available in the consistency classes NLGI 00 and 1

Al-X: Aluminium complex; Ca-X: Calcium complex; CaSX: Calcium sulfonate complex; HDK: Gel thickener; Li/Ca: Lithium/Calcium; Li-X: Lithium complex; Synth. NaX: Synthetic sodium complex; PAO: Polyalphaolefine; PFPE: Perfluorpolyether; PU: Polyurea; PTFE: Polytetrafluorethylene

Lubricating Greases / Pastes

CARBAFLO



Product name	Classification DIN 51502 ISO 6743-9	Thickener Base oil	Solid lubricants	NLGI grade	Base oil visc. at 40 °C [mm²/s]	Temperature range [°C]	Approvals, recommendations	Main application area
Perfluorinated Pastes								
CARBAFLO 2160 (Spray can: CARBAFLO 2160 SPRAY)	–	PTFE PFPE	•	2	310	-60 / +260	–	CARBAFLO 2160 is a white, almost transparent high-temperature paste for the lubrication of bearings, slide rails or plug-in contacts. It is resistant to lot of chemicals, features excellent EP properties and acts as electric insulator. The low evaporation rate of the base oil guarantees extended relubrication intervals. Properly applied, CARBAFLO 2160 guarantees a lifetime lubrication of sensitive slide rails and adjusting mechanisms like in sunroofs.
	100 g (Spritze), 6 x 1 kg (Tin), 10 kg (Bucket)							
CARBAFLO 2455	–	Synth. base oil	•	2	210	-45 / +220	–	CARBAFLO 2455 is a fluorescent special paste based on a highly stable synthetic oil an white solid lubricants. It is resistant to many aggressive chemicals and offers an excellent compatibility with various elastomer and plastic types. The addition of a UV tracer allows simple identification of CARBAFLO 2455 using a UV lamp.
	12 x 1 kg (SR-Cartridge), 6 x 1 kg (Tin)							
CARBAFLO 3631	–	Synth. base oil	•	2	310	-60 / +260	–	The paste has excellent extreme pressure properties across the whole temperature range and offers a long-term wear prevention, thus resulting in a considerable increase in machine component life.
	10 kg (Bucket)							

FUCHS Special Applications
Lubricating Greases / Pastes

GLEITMO

Product name	Classification DIN 51502 ISO 6743-9	Thickener Base oil	Solid lubricants	NLGI grade	Base oil visc. at 40 °C [mm²/s]	Temperature range [°C]	Approvals, recommendations	Main application area
Perfluorinated Pastes								
GLEITMO 591	–	PTFE PFPE	•	2*	510	-25 / +260	–	Resistant to many aggresive chemicals and highly compatible with a wide variety of rubber and plastic types. For plain and roller bearings at the highest temperatures, e.g. in fans, electric motors, transport chains and centrifuge bearings.
24 x 60 g (Tin), 0.6 kg (Semco), 0.75 kg (Pull-Off Cartridge), 0.85 kg (SR-Cartridge), 6 x 1 kg (Tin), 10 kg (Bucket)								
GLEITMO 593	–	PTFE PFPE	•	2	510	-25 / +250	–	For roller bearings of low-speed conveyor chains in textile finishing plants, in drying and enamelling ovens.
60 g (Tin), 6 x 1 kg (Tin), 10 kg (Bucket)								
GLEITMO 591 (OX)	–	PTFE PFPE	•	2	–	-25 / +260	Oxygen pressure resistance	For oxygen applications. Resistant to many chemicals and excellent compatibility with various types of rubbers and plastics. **Please contact us for more information.**
60 g (Tin), 1 kg (Tin)								
GLEITMO 593 (OX)	–	PTFE PFPE	•	2	–	-25 / +250	Oxygen pressure resistance	
6 x 1 kg (Tin)								
GLEITMO 595	–	PTFE PFPE	•	3	–	-60 / +200	Oxygen pressure resistance	First lubrication and maintenance of valves for oxygen bottles and of equipment for the oxygen producing and processing industries. Used in diving. Physiological respiratory certificate is available. Also tested with gaseous oxygen at higher temperatures and with liquid oxygen. **Please contact us for more information.**
60 g (Tube), 6 x 1 kg (Tin), 10 kg (Bucket)								
GLEITMO 595 S *NEW*	–	Special thickener PFPE	•	2-3	300	-60 / +180	Oxygen pressure resistance	For oxygen applications. Resistant to many aggressive chemicals and excellent compatibility with various types of rubbers and plastics. Oxygen resistance tested only for higher temperatures (200 °C and 280 °C) and liquid oxygen. **Please contact us for more information.**
60 g (Tube), 6 x 1 kg (Tin)								
GLEITMO 599	–	Special thickener PFPE	•	3	–	-40 / +160	Oxygen pressure resistance	First lubrication and maintenance of valves for oxygen bottles and of fittings and equipment for the oxygen producing and processing industries. The tested oxygen pressures are at least 400 bar (at 60 °C). With this lubricant it is therefore even possible for example to lubricate the valves of 300 bar oxygen bottles safely and reliably. Ideal for diving applications. Physiological respiratory certificate is available. Also suitable for liquid oxygen **Please contact us for more information.**
60 g (Tube), 6 x 1 kg (Tin)								

* Other consistency class on request

Al-X: Aluminium complex; Ca-X: Calcium complex; CaSX: Calcium sulfonate complex; HDK: Gel thickener; Li/Ca: Lithium/Calcium; Li-X: Lithium complex; Synth. NaX: Synthetic sodium complex; PAO: Polyalphaolefine; PFPE: Perfluorpolyether; PU: Polyurea; PTFE: Polytetrafluorethylene

FUCHS Special Applications
Lubricating Greases / Pastes

GLEITMO, RENOLIT

Product name	Classification DIN 51502 ISO 6743-9	Thickener Base oil	Solid lubricants	NLGI grade	Base oil visc. at 40 °C [mm²/s]	Temperature range [°C]	Approvals, recommendations	Main application area
Perfluorinated Pastes								
GLEITMO PFG 4022	–	PTFE Synth. base oil	•	1	80	-40 / +150	–	GLEITMO PFG 4022 is suitable for lubrication of plain and roller bearings, for life-time lubrication in the presence of aggressive media, at high and low temperatures, for example high-speed bearings, conveyor chains, bearings of centrifuges, electric actuators and magnetic valves.
	0.85 kg (SR-Cartridge), 6 x 1 kg (Bucket)							
RENOLIT ST 8-081/2	–	PTFE PFPE	–	2	510	-20 / +260	–	Do not mix with other lubricants! Surfaces must be free from residual oil and grease! Fully synthetic, thermally stable, resistant to solvents (exception: halocarbon refrigerants), oxidation stable, high load carrying abilities; plain and roller bearings of all industrial sectors, e.g. enamelling lines, drying stoves, machines in the packaging industries, calander bearings, bearings of hot air and smoke gas flaps in power plants.
	1 kg (Tin)							

Lubricating Greases / Pastes

LAGERMEISTER



Product name	Classification DIN 51502 ISO 6743-9	Thickener Base oil	Solid lubricants	NLGI grade	Base oil visc. at 40 °C [mm²/s]	Temperature range [°C]	Approvals, recommendations	Main application area
Greases in Spray Cans or Rattle Cans								
DUOTAC ZAHNRADSPRAY	–	Wax Mineral oil	•	–	–	-20 / +150*	–	Dry, tenacious lubricating film. Open gears, gear rims, racks, chains, outer lubrication of wire ropes in crane installations, excavators, agricultural machines, rack and pinion railways; to be applied in cold condition, for open toothed-wheel gearing, transportation and conveying systems in the metallurgical industry and roller mills, lubrication/conservation of drag ropes and chains, e.g. in non-metallic mineral processing, solid lubricating film up to +300 °C; Bitumen-free special lubricant with graphite.
	12 x 400 ml (Spray Can)							
LAGERMEISTER TS SPRAY (Grease: LAGERMEISTER TS)	KP2N-30	Lithium semi-synth. base oil	–	2	800	-30 / +140*	DB-Mat.-Nr. 245467, KHD Humboldt Wedag International, R.STAHL, Zeppelin Baumaschinen	For plain and roller bearings under difficult operating conditions. Especially recommended for high pressures and low revolutions per minute. Allows longer regreasing intervals when compared to conventional greases. Very good adhesive properties.
	12 x 400 ml (Spray Can)							

* After evaporation solvent

Al-X: Aluminium complex; Ca-X: Calcium complex; CaSX: Calcium sulfonate complex; HDK: Gel thickener; Li/Ca: Lithium/Calcium; Li-X: Lithium complex; Synth. NaX: Synthetic sodium complex; PAO: Polyalphaolefine; PFPE: Perfluorpolyether; PU: Polyurea; PTFE: Polytetrafluorethylene

Lubricating Greases / Pastes *LAGERMEISTER*, RENOLIT

Product name	Classification DIN 51502 ISO 6743-9	Thickener Base oil	Solid lubricants	NLGI grade	Base oil visc. at 40 °C [mm²/s]	Temperature range [°C]	Approvals, recommendations	Main application area
Greases in Spray Cans or Rattle Cans								
LAGERMEISTER WHS 2002 SPRAY (Grease: LAGERMEISTER WHS 2002)	KPF1-2K-20	Lithium Mineral oil	•	1-2	320	-20 / +120*	DB-Mat.-Nr. 685377+685382, Terex Germany, Zeppelin Baumaschinen	For plain and roller bearings operating under extreme conditions (dust, water, vibrations), e.g. conveyors, construction machines, raw material processing machines. For lubrication of plastic crosshead guides on telescopic cranes. Also available as fluid.
12 x 400 ml (Spray Can)								
PBC 1574 SPRAY	–	Inorg. thickener Mineral oil	•	2-3	–	-20 / +160* +1200 (dry lubrication)	–	PBC 1574 is used for the prevention of seizures on screw threads, linkages, pivots, flanges and mating surfaces subject to high temperatures, fretting corrosion, salt water and aggressive environmental media. The product is used to lubricate brake callipers and prevent corrosion of disc brakes. PBC 1574 is not electrically conductive and does not affect the sensors of ABS systems.
12 x 300 ml (Spray Can)								
RENOLIT CA-LZ SPRAY (Grease: RENOLIT CA-LZ)	–	Calcium Mineral oil	–	2	700	-30 / +120*	–	Strongly adhesive, protects from wear even under extreme conditions, very resistant to water wash-out from metallic surfaces, long-term lubrication of passenger cars and commercial vehicles, construction industry, industrial and agricultural machines.
12 x 400 ml (Spray Can)								

* After evaporation solvent

Al-X: Aluminium complex; Ca-X: Calcium complex; CaSX: Calcium sulfonate complex; HDK: Gel thickener; Li/Ca: Lithium/Calcium; Li-X: Lithium complex; Synth. NaX: Synthetic sodium complex; PAO: Polyalphaolefine; PFPE: Perfluorpolyether; PU: Polyurea; PTFE: Polytetrafluorethylene

FUCHS Special Applications
Lubricating Greases / Pastes

CARBAFLO, CEPLATTYN, GLEITMO

Product name	Classification DIN 51502 ISO 6743-9	Thickener Base oil	Solid lubricants	NLGI grade	Base oil visc. at 40 °C [mm²/s]	Temperature range [°C]	Approvals, recommendations	Main application area
Greases in Spray Cans or Rattle Cans								
CARBAFLO 2160 SPRAY (Grease: CARBAFLO 2160)	–	PTFE PFPE	•	2	310	-60 / +260*	–	CARBAFLO 2160 is a white, almost transparent high-temperature paste for the lubrication of bearings, slide rails or plug-in contacts. It is resistant to most lyes and acids, features excellent EP properties and acts as electric insulator. The low evaporation rate of the base oil guarantees extended relubrication intervals. Properly applied, CARBAFLO 2160 guarantees a lifetime lubrication of sensitive slide rails and adjusting mechanisms like in sunroofs.
	100 ml (Spray Can)							
CEPLATTYN 300 SPRAY (Grease: CEPLATTYN 300)	–	Al-X Mineral oil	•	1-2	1300	-30 / +250*	DB-Mat.-Nr. 106169, Ferry Capitain, FLSmidth, Sinoma, Citic, CMD, Christian Pfeiffer, Sandvik, Gebr. Pfeiffer, KHD Humboldt Wedag International, Maschinenfabrik Gustav Eirich, ThyssenKrupp Industrial Solutions, RUD Ketten	Priming lubricant for large Open Gear drives, gear racks and sliding surfaces. It is also used as an assembly paste for screws/bolts and pins. It is also suitable for wire rope lubrication and preservation as well as in steel hydraulics construction for chains, sliding surfaces, and gear tooth systems. Dry lubrication up to +500 °C.
	12 x 400 ml (Spray Can)							
GLEITMO 100 S SPRAY (Grease: GLEITMO 100 S)	–	Synth. base oil	•	1	–	-40 / +400*	VW, Josef Fröhling, KHD Humboldt Wedag International	Assembly pastes with an extremely large range of applications. For running-in lubrication of heavy-duty plain bearings, slide and guide rails, gear wheels and screw spindles as well as bolt and threaded connections. Facilitates assembly / disassembly and prevents stick-slip. From approx. +140 °C dry lubrication by solid lubricants. Based on the higher MoS_2 share GLEITMO 100 S is suitable for extreme applications.
	12 x 400 ml (Spray Can)							
GLEITMO 165 SPRAY (Grease: GLEITMO 165)	–	Synth. base oil	•	1-2	–	-40 / +1200*	VW, Volvo Car Germany	For lubrication of turbine bolts, high-temperature screws and for lubrication of bolts, slide rings, sliding rails at high temperatures. No formation of oxide layers.
	12 x 400 ml (Spray Can)							

FUCHS Special Applications
Lubricating Greases / Pastes

GLEITMO

Product name	Classification DIN 51502 ISO 6743-9	Thickener Base oil	Solid lubricants	NLGI grade	Base oil visc. at 40 °C [mm²/s]	Temperature range [°C]	Approvals, recommendations	Main application area
Greases in Spray Cans or Rattle Cans								
GLEITMO 582 SPRAY (Grease: GLEITMO 582)	–	Lithium semi-synth. base oil	•	0	–	-15 / +120*	–	High-performance chain grease for low and high-speed power transmitting chains, even where resistance to water, water vapour, acids and lyes is required.
🛢	12 x 400 ml (Spray Can)							
GLEITMO 815 SPRAY (Grease: GLEITMO 815)	–	Inorg. thickener synth. base oil	•	2	115	-45 / +150* +180*	MAN	For ball screw drives, multi-groove profiles, ball bushes, gear couplings, threaded spindles, stainless steel threaded connections, plain bearings, household appliances, textile, office and packaging machines. With extended temperature range (short term up to +180 °C). As a spray, especially suitable for assembly and maintenance.
🛢	12 x 400 ml (Spray Can)							
GLEITMO SIL SPRAY	–	Silcone oil	–	–	730	-40 / +250*	–	GLEITMO SIL SPRAY is a high-quality silicone lubricant for use as a lubricant and release agent. It forms a corrosion-protecting, thin film that protects the surface and prevents any adhesion of dirt. GLEITMO SIL SPRAY is colorless, water-repellent and clean.
🛢	12 x 400 ml (Spray Can)							
GLEITMO WSP 5040 SPRAY (Grease: GLEITMO WSP 5040)	–	CaSX semi-synth. base oil	•	2	170	-20 / +140* +1200*	COLUMBUS McKINNON Engineered Products (Pfaff-silberblau), NEUERO Industrietechnik für Förderanlagen, Sandvik, ThyssenKrupp Steel Europe	For machine elements of all types subjected to extreme pressures, shock loads and oscillatory movements. It is particularly appropriate if the surrounding area is subject to high humidity or the effects of splash water. For sliding pairings, which have a tendency to stick slip and scuffing (fretting). At low sliding speeds and high pressures as well as where fretting corrosion is present. Application as a high-temperature screw paste up to +1,200 °C.
🛢	12 x 400 ml (Spray Can)							
RENAX GLEITSPRAY (Grease: RENOLIT GL 1)	–	Lithium Semi-synth. base oil	–	1	–	-30 / +140*	–	Very adhesive, noise-suppressing, reduces friction and wear, protects from corrosion. Suitable for plain and roller bearings and for gear boxes, bowden cables, guide rails, sun roofs, etc.
🛢	12 x 400 ml (Spray Can)							

* After evaporation solvent

Al-X: Aluminium complex; Ca-X: Calcium complex; CaSX: Calcium sulfonate complex; HDK: Gel thickener; Li/Ca: Lithium/Calcium; Li-X: Lithium complex; Synth. NaX: Synthetic sodium complex; PAO: Polyalphaolefine; PFPE: Perfluorpolyether; PU: Polyurea; PTFE: Polytetrafluorethylene

Lubricating Greases / Pastes

RENOLIT



Product name	Classification DIN 51502 ISO 6743-9	Thickener Base oil	Solid lubricants	NLGI grade	Base oil visc. at 40 °C [mm²/s]	Temperature range [°C]	Approvals, recommendations	Main application area
Assembly Pastes								
RENOLIT LX-PG 2	–	Li-X Polyglycol	–	1-2	360	-40 / +160	VW TL52150	Plain and roller bearings, guides, gears, assembly aid for brake actuator boots made of EPDM.
	10 x 1 kg (Tin), 18 kg (Bucket), 180 kg (Drum)							

FUCHS Special Applications
Lubricating Greases / Pastes

Product name	Classification DIN 51502 ISO 6743-9	Thickener Base oil	Solid lubricants	NLGI grade	Base oil visc. at 40 °C [mm²/s]	Temperature range [°C]	Approvals, recommendations	Main application area
Assembly Pastes								
GLEITMO SIL 300 M	MSI2P-70	Lithium Silicone oil	–	2	75	-70 / +160	DBL 6812.10 VW TL 767 X	Low temperature grease for electric and electronic equipment, precision machines, sealing grease for radial waves sealing rings, groove rings, sealing-rings; lubrication of sealing bellows.
	6 x 0.1 kg (Tube), 1 x 1 kg (Tin), 5 kg (Bucket), 18 kg (Bucket)							
GLEITMO SIL 708	–	HDK Silicone oil	–	2-3	750	-40 / +200	–	Assembly aid for sealings, insulation grease.
	6 x 0.1 kg (Tube), 1 kg (Tin), 3 x 5 kg (Bucket), 180 kg (Drum)							
GLEITMO WSP 5040 (Spray can: GLEITMO WSP 5040 SPRAY)	–	CaSX Semi-synth. base oil	•	2	170	-20 / +140 / +1200	COLUMBUS McKINNON Engineered Products (Pfaff-silberblau), NEUERO Industrietechnik für Förderanlagen, Sandvik, ThyssenKrupp Steel Europe	For machine elements of all types subjected to extreme pressures, shock loads and oscillatory movements. It is particularly appropriate if the surrounding area is subject to high humidity or the effects of splash water. For sliding pairings, which have a tendency to stick slip and scuffing (fretting). At low sliding speeds and high pressures as well as where fretting corrosion is present. Application as a high-temperature screw paste up to +1,200 °C.
	24 x 0.1 kg (Tube), 6 x 1 kg (Tin), 12 x 0.5 kg (SR-Cartridge), 5 kg (Bucket), 18 kg (Bucket), 200 kg (Drum)							
RENOLIT AS	–	Lithium Synth. base oil	–	1	3000	-20 / +140	–	Lubricating and sealing grease, reduces friction, and vibration, prevents stick-slip, resists many liquids and gases, protects from corrosion; pump bearings, ventilators, conveyors, printing machines, cleaning equipment and painting lines.
	5 kg (Bucket), 18 kg (Bucket)							

Al-X: Aluminium complex; Ca-X: Calcium complex; CaSX: Calcium sulfonate complex; HDK: Gel thickener; Li/Ca: Lithium/Calcium; Li-X: Lithium complex; Synth. NaX: Synthetic sodium complex; PAO: Polyalphaolefine; PFPE: Perfluorpolyether; PU: Polyurea; PTFE: Polytetrafluorethylene

CEPLATTYN, GLEITMO, RENOLIT



Product name	Classification DIN 51502 ISO 6743-9	Thickener Base oil	Solid lubricants	NLGI grade	Base oil visc. at 40 °C [mm²/s]	Temperature range [°C]	Approvals, recommendations	Main application area
Greases for Special Applications								
CEPLATTYN 100 HV	–	Al-X Mineral oil	•	–	1750	0 / +140	FLSmidth, Sinoma, Ferry Captain, CMD, ThyssenKrupp Industrial Solutions	For bath lubrication of Open Gears in mills, dryers and rotary kilns.
	1 kg (Tin), 18 kg (Bucket), 45 kg (Hobbock), 170 kg (Drum)							
CEPLATTYN 24 LR	–	Water based	•	–	–	>0 / +600	ThyssenKrupp Industrial Solutions, KHD Humboldt Wedag, Sprimag	For internal lubrication of riding rings in rotary and drying kilns in order to maintain the relative movement of the ball races when no flammable lubricant should be used.
	1 kg (Tin), 10 kg (Bucket), 25 kg (Hobbock)							
CEPLATTYN 300 (Spray can: CEPLATTYN 300 SPRAY)	–	Al-X Mineral oil	•	1-2	1300	-30 / +250	DB-Mat.-Nr. 106169, Ferry Capitain, FLSmidth, Sinoma, Citic, CMD, Christian Pfeiffer, Sandvik, Gebr. Pfeiffer, KHD Humboldt Wedag International, Maschinenfabrik Gustav Eirich, ThyssenKrupp Industrial Solutions, RUD Ketten	Priming lubricant for large Open Gear drives, gear racks and sliding surfaces. It is also used as an assembly paste for screws/bolts and pins. It is also suitable for wire rope lubrication and preservation as well as in steel hydraulics construction for chains, sliding surfaces, and gear tooth systems. Dry lubrication up to +500 °C.
	0.4 kg (Cartridge), 6 x 1 kg (Tin), 5 kg (Bucket), 15 kg (Bucket), 25 kg (Hobbock), 45 kg (Hobbock), 210 kg (Drum)							

FUCHS Special Applications
Lubricating Greases / Pastes

Product name	Classification DIN 51502 ISO 6743-9	Thickener Base oil	Solid lubricants	NLGI grade	Base oil visc. at 40 °C [mm²/s]	Temperature range [°C]	Approvals, recommendations	Main application area
Greases for Special Applications								
CEPLATTYN BL	OGPF2P-20	Al-X Mineral oil	•	2	500	-40 / +150	FLSmidth, BEKAwind	For lubrication of machines and machine parts under difficult operating conditions, e.g. gear wheels, slide bars, chains, worm gears and ropes as well as for lubrication of machine parts subject to outdoor temperature fluctuations and environmental influences. Also suitable for use on wind turbine actuators.
	0.5 kg (SR-Cartridge), 6 x 1 kg (Tin), 5 kg (Bellow), 5 kg (Bucket), 18 kg (Bucket), 25 kg (Hobbock), 45 kg (Hobbock), 185 kg (Drum)							
CEPLATTYN BL WHITE	OGPF1-2P-30	Al-X Semi-synth. base oil	•	1-2	300	-50 / +160	–	CEPLATTYN BL WHITE is especially used for the lubrication of azimuth and pitch gears in wind power plants. In addition to that it is used, e.g. on gears, sliding tracks, chains, worm gears, and wire ropes, or for the lubrication of machine parts subjected to considerable temperature fluctuations and environmental influences.
	12 x 0.4 kg (Pull-Off Cartridge), 3.6 kg (Service-Cartridge), 5 kg (Bucket), 5 kg (Bellow), 18 kg (Bucket), 185 kg (Drum)							
CEPLATTYN GT 10	–	Synth. base oil	•	–	10000	0 / +140	FLSmidth, KHD Humboldt Wedag International, Metso, Outotec, ThyssenKrupp Industrial Solutions, Sinoma, Citic, Ferry Capitain	CEPLATTYN GT 10 is a high-viscosity adhesive lubricant for heavy-duty Open Gears, e.g. on kilns, mills and driers in the raw materials industry. CEPLATTYN GT 10 has been especially developed for the application on Open Gears under critical operating conditions, such as low-speed kiln drives with increased tooth flank temperatures, mill drives with extreme drive power, and drives which are frequently operated under start-stop conditions.
	1 kg (Tin), 45 kg (Hobbock), 190 kg (Drum), BULK							
CEPLATTYN GT 3	–	Synth. base oil	•	–	3200	-5 / +60	ThyssenKrupp Industrial Solutions, Sinoma	CEPLATTYN GT 3 is a high-viscosity adhesive lubricant for heavy-duty Open Gears, e.g. on kilns, mills and driers in the raw materials industry, used with bath or circulation systems. CEPLATTYN GT 3 has been especially developed for the application on Open Gears under critical operating conditions, such as kiln and mill drives in the cement and mining industry.
	190 kg (Drum)							

Al-X: Aluminium complex; Ca-X: Calcium complex; CaSX: Calcium sulfonate complex; HDK: Gel thickener; Li/Ca: Lithium/Calcium; Li-X: Lithium complex; Synth. NaX: Synthetic sodium complex; PAO: Polyalphaolefine; PFPE: Perfluorpolyether; PU: Polyurea; PTFE: Polytetrafluorethylene

CEPLATTYN

Product name	Classification DIN 51502 ISO 6743-9	Thickener Base oil	Solid lubricants	NLGI grade	Base oil visc. at 40 °C [mm²/s]	Temperature range [°C]	Approvals, recommendations	Main application area
Greases for Special Applications								
CEPLATTYN GT 30	–	Synth. base oil	•	–	28000	+5 / +140	Falk Rexnord, Ferry Capitain	CEPLATTYN GT 30 is a high-viscosity adhesive lubricant for heavy-duty Open Gears, e.g. on kilns, mills and driers in the raw materials industry. CEPLATTYN GT 30 has been especially developed for the application on Open Gears under critical operating conditions, such as low-speed kiln drives with increased tooth flank temperatures, mill drives with extreme drive power, and drives which are frequently operated under start-stop conditions.
	190 kg (Drum), BULK							
CEPLATTYN GT P	–	Al-X Semi-synth. base oil	•	1-2	300	-30 / +140	FLSmidth, KHD Humboldt Wedag International, Sinoma, ThyssenKrupp Industrial Solutions	Used as a priming lubricant for Open Gears, is especially adjusted to CEPLATTYN GT and CEPLATTYN SF operational lubricants.
	18 kg (Bucket)							
CEPLATTYN GT RN	–	Synth. base oil	•	–	3000	-10 / +140	ThyssenKrupp Industrial Solutions, FLSmidth, KHD Humboldt Wedag International, Sinoma, Ferry Capitain	Is used to smoothen the manufacturing surface roughness of the tooth surfaces and to optimise the contact pattern on newly installed gear rims and pinions.
	175 kg (Drum), BULK							
CEPLATTYN HT	–	Synth. base oil	•	–	160	-20 / +600	FLSmidth, KHD Humboldt Wedag International, ThyssenKrupp Industrial Solutions, Sinoma, Sprimag	For internal lubrication of riding rings fitted to rotary kilns or dryers.
	1 kg (Tin), 18 kg (Bucket), 45 kg (Hobbock), 185 kg (Drum)							

FUCHS Special Applications
Lubricating Greases / Pastes

Product name	Classification DIN 51502 ISO 6743-9	Thickener Base oil	Solid lubricants	NLGI grade	Base oil visc. at 40 °C [mm²/s]	Temperature range [°C]	Approvals, recommendations	Main application area
Greases for Special Applications								
CEPLATTYN KG 10 HMF	OGPF0-00N-10	Al-X Mineral oil	•	0-00	500	-10 / +140	Ferry Capitain, FLSmidth, Maschinenfabrik Gustav Eirich, Outotec, CMD, Maguin, Christian Pfeiffer, Sandvik, Gebr. Pfeiffer, KHD Humboldt Wedag International, ThyssenKrupp Industrial Solutions	For open running gear drive units of tube mills, rotary kilns, dryers, crushers.
	1 kg (Tin), 18 kg (Bucket), 45 kg (Hobbock), 190 kg (Drum), BULK							
CEPLATTYN KG 10 HMF-1000	OGPF0-00N-10	Al-X Mineral oil	•	0-00	1000	-10 / +140	Ferry Capitain, FLSmidth, Outotec, CMD, KHD Humboldt Wedag International, ThyssenKrupp Industrial Solutions	For open running gear drives used under heavy loads and where the surrounding and tooth flank temperatures are permanently increased as well as for gear drives with slightly damaged tooth flanks and unfavourable load pattern.
	1 kg (Tin), 18 kg (Bucket), 45 kg (Hobbock), 190 kg (Drum), BULK							
CEPLATTYN KG 10 HMF-2500	OGPF0-00N+5	Al-X Mineral oil	•	0-00	2500	+5 / +140	Ferry Capitain, FLSmidth, Citic, CMD, KHD Humboldt Wedag International, Outotec, ThyssenKrupp Industrial Solutions	For drives with pre-damaged load-carrying tooth flanks (pitting formation, chipped surface etc.) and for tooth flank temperatures of more than +70 °C. Because of the high viscosity of the base oil, transmission of vibrations is dampened.
	1 kg (Tin), 15 kg (Bucket), 18 kg (Bucket), 45 kg (Hobbock), 190 kg (Drum), BULK							
CEPLATTYN RN	–	Al-X Semi-synth. base oil	•	00	460	-10 / +140	Ferry Capitain, FLSmidth, Outotec, Sinoma, Citic, CMD, Maguin, Christian Pfeiffer, Sandvik, KHD Humboldt Wedag International, ThyssenKrupp Industrial Solutions	CEPLATTYN RN can be applied to single and double pinion drives of any kind of tube mills and kilns, e.g. in cement works, fertilizer plants, combustion and compost units. CEPLATTYN RN is applied to gear drives with high performance. Furthermore it is used when running under critical operating conditions, when having big tooth widths or when running with high speeds.
	1 kg (Tin), 18 kg (Bucket), 45 kg (Hobbock), 190 kg (Drum), BULK							
CEPLATTYN R-VGP Advanced Circular Technologies	–	Calcium Native base oil	•	1	–	-30 / +70	EU Ecolabel DE/027/288	For the lubrication of wire ropes, sliding guides, drive elements, and open gearings, for example of jacking rigs, used in environmentally sensitive areas, such as harbours, ships, water locks, etc. CEPLATTYN R-VGP was especially developed to meet the requirements of the US Environmental Protection Agency for Environmentally Acceptable Lubricants (EAL) and thus comply with the Vessel General Permit (VGP).
	1 kg (Tin), 5 kg (Hobbock), 25 kg (Hobbock), 190 kg (Drum)							

CEPLATTYN, GLEITMO

Product name	Classification DIN 51502 ISO 6743-9	Thickener Base oil	Solid lubricants	NLGI grade	Base oil visc. at 40 °C [mm²/s]	Temperature range [°C]	Approvals, recommendations	Main application area
Greases for Special Applications								
CEPLATTYN SF 10	–	Synth. base oil	–	–	10000	0 / +120	Ferry Capitain, Metso, Outotec, ThyssenKrupp Industrial Solutions, FLSmidth, KHD Humboldt Wedag, CMD, Citic	The high base oil viscosity guarantees a stable lubricant film between the contacting tooth flanks. This leads to the exceptional efficiency together with the new type of additive package. Use on Open Gears in mills and large drive chains in raw materials industry. Meets AGMA 2005-D94/13 EP/13 S.
	1 kg (Tin), 185 kg (Drum)							
CEPLATTYN SF 20	–	Synth. base oil	–	–	20000	+10 / +120	–	For use on Open Gears in the raw materials industry. Especially formulated for heavy-duty, high-speed open mill drives subject to high vibration. Also suitable for the lubrication of large driving chains.
	50 kg (Hobbock), 185 kg (Drum)							
CEPLATTYN SF 30	–	Synth. base oil	–	–	30000	+15 / +120	Metso, FLSmidth, ThyssenKrupp Industrial Solutions, Citic, Falk, KHD Humboldt Wedag, Rexnord	Especially formulated for extremely heavy-duty Open Gear drives exposed to high shock loads. The extremely high base oil viscosity guarantees a good separation of the friction partners resulting in an exceptional efficiency.
	50 kg (Hobbock), 185 kg (Drum), BULK							
CEPLATTYN T ECO Advanced Circular Technologies	–	Calcium native base oil	•	1	–	-30 / +70	EU Ecolabel DE/027/288	CEPLATTYN T ECO is a lubricating grease for heavy duty threads of drilling systems. It is especially suited for the use in environmentally sensitive areas. Furthermore the lubricant is suitable for the lubrication of buffer plates, screw couplings, hand brake spindles and axle guard sliding plates of rail vehicles.
	5 kg (Hobbock)							
GLEITMO 585 K	–	Lithium Synth. base oil	•	2	50	-45 / +130	ThyssenKrupp Rothe Erde, BEKA	For plain and roller bearings as well as all types of lubricating points, particularly if they are subject to the risk of fretting corrosion (oscillating movements, vibrations, e.g. pitch and azimuthh bearings of wind turbines).
	12 x 0.37 kg (Pull-Off Cartridge), 0.5 kg (SR-Cartridge), 0.95 kg (Tin), 3.57 kg (Service-Cartridge), 5 kg (Bellow), 5 kg, 18 kg (Bucket), 25 kg, 40 kg (Hobbock), 180 kg (Drum)							

Al-X: Aluminium complex; Ca-X: Calcium complex; CaSX: Calcium sulfonate complex; HDK: Gel thickener; Li/Ca: Lithium/Calcium; Li-X: Lithium complex; Synth. NaX: Synthetic sodium complex; PAO: Polyalphaolefine; PFPE: Perfluorpolyether; PU: Polyurea; PTFE: Polytetrafluorethylene

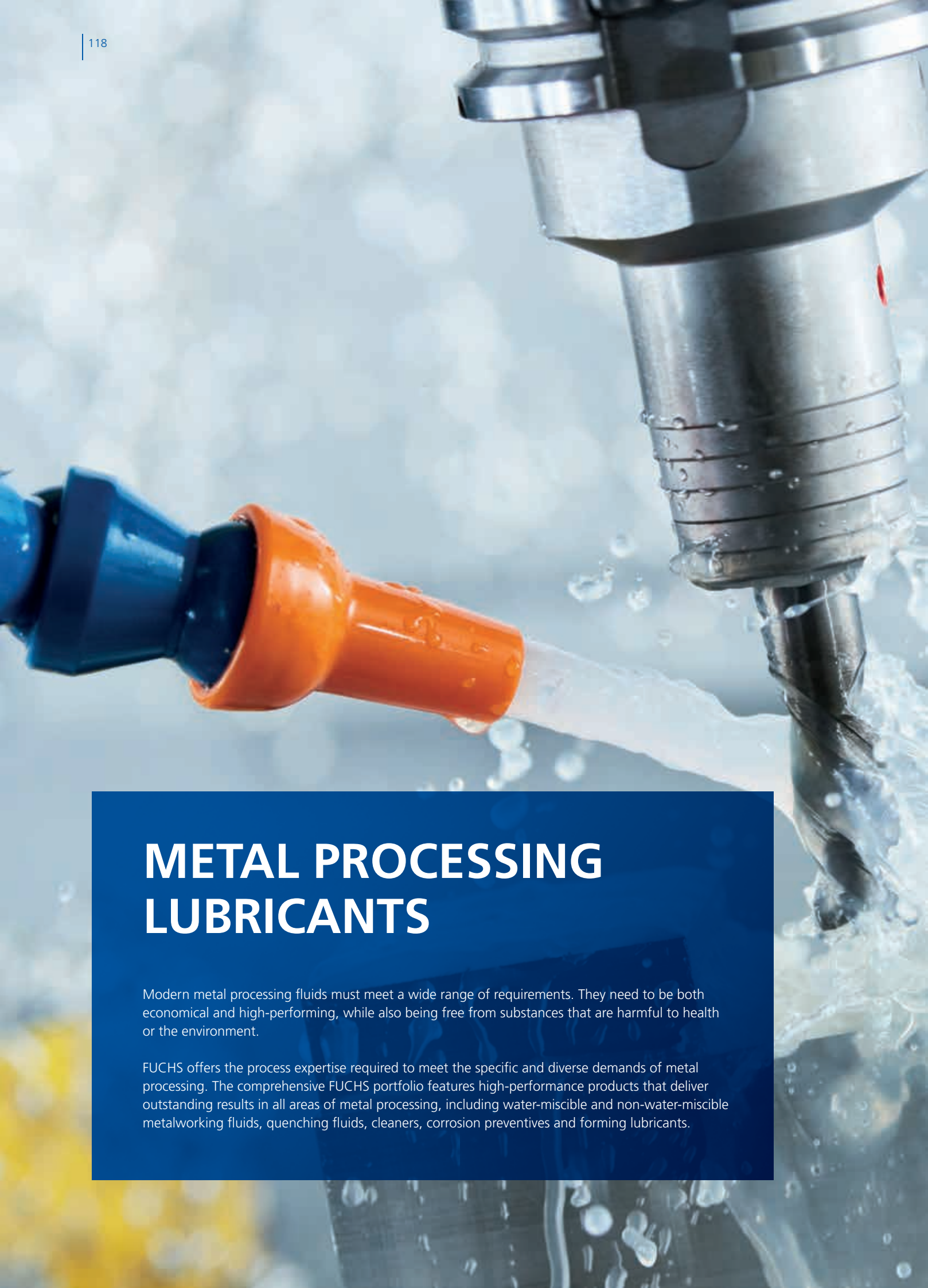
FUCHS Special Applications
Lubricating Greases / Pastes

Product name	Classification DIN 51502 ISO 6743-9	Thickener Base oil	Solid lubricants	NLGI grade	Base oil visc. at 40 °C [mm²/s]	Temperature range [°C]	Approvals, recommendations	Main application area
Greases for Special Applications								
GLEITMO 585 K PLUS	–	Lithium Synth. base oil	•	2	50	-45 / +130	ThyssenKrupp Rothe Erde, SKF-Lincoln, BEKA	For plain and roller bearings as well as all types of lubricating points, particularly if they are subject to the risk of fretting corrosion (oscillating movements, vibrations, e.g. pitch and azimuthh bearings of wind turbines). GLEITMO 585 K PLUS was especially designed for progressive lubrication systems.
	12 x 0.4 kg (Pull-Off Cartridge), 3.55 kg (Service-Cartridge), 5 kg (Bellow), 5 kg, 18 kg (Bucket), 25 kg (Hobbock), 180 kg (Drum)							
GLEITMO 830	–	Mineral oil	•	2	–	-25 / +100	–	GLEITMO 830 is used in cold forming processes, where commonly used lubricants are not satisfactory. GLEITMO 830 is proven for most demanding requirements in stamping, drawing, stretch-forming, bending, rolling, and forming of profiles. GLEITMO 830 is suitable for different materials such as austenitic and ferritic steels, copper, aluminium, zinc and their alloys.
	60 kg (Hobbock)							
GLEITMO 850 ST	–	Hybrid Semi-synth. base oil	•	1	110	-40 / +130	–	This lubricating grease has been customized to the extremely challenging requirements in blade and pitch bearings of wind turbines. This is where GLEITMO 850 ST shows an unprecedented reliability and versatility to meet the requirements regarding wear protection, corrosion protection and suitability at low temperatures. The product is also characterized by the necessary suitability for progressive distributor systems of common manufacturers and represents a benchmark when it comes to protection from standstil marks.
	5 kg (Bucket), 170 kg (Drum), others on request							
GLEITMO SIL 300 M	MSI2P-70	Lithium Silicone oil	–	2	75	-70 / +160	DBL 6812.10, VW TL 767 X	Low temperature grease for electric and electronic equipment, precision machines, sealing grease for radial waves sealing rings, groove rings, sealing rings; lubrication of sealing bellows.
	6 x 0.1 kg (Tube), 1 x 1 kg (Tin), 5 kg (Bucket), 18 kg (Bucket)							
GLEITMO SIL 410 M	MSI2K-50	Calcium Silicone oil	–	2	750	-55 / +130	eurofins (F)	Beer tap grease for lubriation of taps, bearings and sealings of fermentation and filling plants for beverages, food plants and packaging.
	6 x 0.1 kg (Tube), 1 kg (Tin), 5 kg (Bucket), 25 kg (Bucket), 180 kg (Drum)							

Al-X: Aluminium complex; Ca-X: Calcium complex; CaSX: Calcium sulfonate complex; HDK: Gel thickener; Li/Ca: Lithium/Calcium; Li-X: Lithium complex; Synth. NaX: Synthetic sodium complex; PAO: Polyalphaolefine; PFPE: Perfluorpolyether; PU: Polyurea; PTFE: Polytetrafluorethylene

GLEITMO, RENOLIT

Product name	Classification DIN 51502 ISO 6743-9	Thickener Base oil	Solid lubricants	NLGI grade	Base oil visc. at 40 °C [mm²/s]	Temperature range [°C]	Approvals, recommendations	Main application area
Greases for Special Applications								
RENOLIT FOL 2	–	Lithium PAO	•	2	110	-10 / +21	MPA Stuttgart approved	Very ageing resistant, grease for sliding films in engineering, low sliding speed.
	18 kg (Bucket)							
RENOLIT TFL 2	–	Lithium PAO	•	2	110	-40 / +140	–	With PTFE, for slide-pairs with and without plastic components.
	18 kg (Bucket)							
SILICONFETT 300 MITTEL BLQ	MSI2P-70	Lithium Silicone oil	–	2	75	-70 / +160	MPA Stuttgart approved	Bridge bearing quality (DIN EN 1337-2)
	18 kg (Bucket)							
GLEITMO EOS E 2 Advanced Circular Technologies	KPE1-2K-40	Lithium Synth. base oil	–	1-2	320	-40 / +130	General Electric, IMO, Jungblut wind elements, KENERSYS, ThyssenKrupp Rothe Erde, ZS Schmieranlagen	For lubrication of heavy-duty plain and roller bearings in of wind turbines. Has a wide operating temperature range, high mechanical stability, pronounced load bearing capacity and excellent corrosion protection properties. It can be used both for the lubrication of rotor bearings as well as for the blade and azimuthh bearings.
	12 x 0.4 kg (Pull-Off Cartridge), 3.7 kg (Service-Cartridge), 5 kg (Bellow), 5 kg (Bucket), 18 kg (Bucket), 180 kg (Drum)							
GLEITMO LX 460 SYN	KPHC1-2N-40	Li-X Synth. base oil	–	1-2	460	-40 / +140	–	GLEITMO LX 460 SYN is a fully synthetic high performance grease which is an excellent choice for the lubrication of main bearings in wind turbines due to its wide temperature range, high mechanical stability and exceptional load carrying capacity.
	12 x 0.4 kg (Pull-Off Cartridge), 3.57 kg (Service-Cartridge), 5 kg (Bellow), 5 kg (Bucket), 25 kg (Hobbock), 180 kg (Drum)							
GLEITMO LX 460 SYN 00	KPHC 00 N-40	Li-X Synth. base oil	–	00	460	-40 / +140	–	GLEITMO LX 460 SYN 00 is a fully synthetic high-performance grease which was especially developed for the use in wind power plants. Combining the advantages of synthetic base oil, a special lithium complex thickener and a state-of-the-art additive package, STABYL LX 460 SYN 00 shows an outstanding performance throughout a wide temperature range.
	5 kg (Faltenbalg), 18 kg (Bucket), 25 kg (Hobbock), 180 kg (Drum)							



METAL PROCESSING LUBRICANTS

Modern metal processing fluids must meet a wide range of requirements. They need to be both economical and high-performing, while also being free from substances that are harmful to health or the environment.

FUCHS offers the process expertise required to meet the specific and diverse demands of metal processing. The comprehensive FUCHS portfolio features high-performance products that deliver outstanding results in all areas of metal processing, including water-miscible and non-water-miscible metalworking fluids, quenching fluids, cleaners, corrosion preventives and forming lubricants.



Metal Processing Lubricants

Metalworking Fluids – Water-miscible

Global Core Program | Core Program | S-LINE Core Program | DMG MORI and DMQP approved Water-miscible Metalworking Fluids — 120-124

Machining of: Aluminium, Non-ferrous Metals (Copper, Brass, Bronze), Magnesium, Cast-Iron and Low-Alloy Steels, High-Alloy Steels and High-Temperature Materials | Special Products — 125-127

Service Additives for Water-miscible Metalworking Fluids: Top-up Concentrates | Defoamers | Bactericides and Fungicides — 128-129

Metalworking Fluids – Non-water-miscible

ECOCUT HFN Series | 500 Series | 600 Series | 700 Series | 800 Series | Universal for Steel and Non-ferrous Metals | FT Series | NEXT Series | ACT Series | PLANTOCUT Series | Minimum Quantity Lubrication — 130-136

Specific Applications: Tool Grinding, Gear Machining, EDM, Threading, Honing/Finishing, Medical Technology — 137-138

Service Additives for Non-water-miscible Metalworking Fluids: Adjusting Concentrates — 139

Quenching Fluids

Quenching Oils based on Mineral Oil | High-performance Quenching Oils based on Mineral Oil | High-performance Quenching Oils based on Hydrocrack Oil | Synthetic High-performance Quenching Oils — 141

Water-miscible Quenchants — 142

Cleaner

Neutral Cleaner | 1-Component Products | Acid Cleaner | Builder Components | Surfactant Components | System Cleaner | Solvents | Special Products | Assembly Aids | Corrosion Protection — 143-155

Corrosion Preventives

Corrosion Protection Oils | Oily Corrosion Preventative Concentrates | Thixotropic Corrosion Protection Oils | Mineral Oil-free Corrosion Protection Products | Solvent based Corrosion Protection Products | Water Displacing Corrosion Protection Products | Water-miscible, Oily Corrosion Protection Products | Water-miscible, Synthetic Corrosion Protection Product | Corrosion Protection Coatings | Maintenance Fluids for Dewatering Products | Volatile Corrosion Inhibitor | Spraying Cans — 156-167

Cold Forming Lubricants

Cold Forming Lubricants for: Deep Drawing, Stamping, Fine Blanking, Cold Extrusion, WTB Drawing (Wire - Tube - Bar), Hydroforming — 168-175

VDA Forming Lubricants | Rolling Oils — 176-177

Hot Forming Lubricants

Hot Forming Lubricants for: Drop Forging, Hammer Forging, High-speed Forging, Rotatory Forming Operations, Billet Pretreatment — 178-183

Release Agents and Auxiliary Materials for Pressure Die Casting | Other Products — 184-185

Metalworking Fluids – Water-miscible



Product name	Milky emulsion	Translucent emulsion	Solution/ Fully synthetic	Density at 15 °C	pH value 5%	Mixing water hardness	Boron-free	Material recommendation	Main application areas
ECOCOOL GLOBAL									
ECOCOOL GLOBAL 1000	• (EP)	–	–	0.99	9.4	S, M, H	•	Steel, stainless steel, Al, Ti, Ni	Cooling lubricant for high-performance metalworking, especially for the aerospace, medical technology, semiconductor supply industry, energy technology and mechanical engineering sectors. Approvals: Medical, DMG MORI, Rolls-Royce, Airbus, Safran, GROB, qualified to ASML GRADE 2 specification
	20 L (Canister), 205 L (Drum), 1000 L (IBC)								
ECOCOOL GLOBAL 1500 Advanced Circular Technologies	• (EP)	–	–	0.99	9.4	S, M, H	•	Steel, stainless steel, Al, Ti, Ni	Sustainable, innovative cooling lubricant technology, specially developed for steel, titanium and aluminium alloys - free from mineral oil. For high-performance machining. Approval: SAFRAN PR6300
	205 L (Drum), 1000 L (IBC)								
ECOCOOL GLOBAL 2000	• (EP)	–	–	1.0	9.25	S, M, H	•	Steel, stainless steel, Al	New cooling lubricant technology, specially developed for the automotive and supplier industry.
	205 L (Drum), 1000 L (IBC)								
ECOCOOL GLOBAL 2500	• (EP)	–	–	0.98	9.3	S, M, H	•	Steel, stainless steel, Al	New coolant technology, specially developed for difficult aluminium processing.
	205 L (Drum), 1000 L (IBC)								
ECOCOOL GLOBAL 3500	• (EP)	–	–	0.99	9.7	S, M, H	•	Steel, cast iron, nodular cast iron	New coolant technology, specially developed for cast iron, nodular cast iron and low-alloy steel.
	205 L (Drum), 1000 L (IBC), Tank Truck								

ECOCOOL

Product name	Milky emulsion	Translucent emulsion	Solution/ Fully synthetic	Density at 15 °C	pH value 5%	Mixing water hardness	Boron-free	Material recommendation	Main application areas
ECOCOOL CORE									
ECOCOOL MACH 300	• (EP)	–	–	1.01	9.2	M, H	•	Steel, stainless steel, Al	Multifunctional cooling lubricant with a wide range of applications. Particularly suitable for aluminium prone to staining with high surface quality.
	20 L (Canister), 205 L (Drum), 1000 L (IBC), Tank Truck								
ECOCOOL AFB 300	• (EP)	–	–	1.01	9.1	M, H	•	Steel, stainless steel, Al, Ni, non-ferrous metals	Cooling lubricant particularly suitable for machining non-ferrous metals containing zinc, whereby the formation of zinc soaps is avoided. **Not suitable for use with non-ferrous metals with a high lead content.**
	205 L (Drum), 1000 L (IBC)								
ECOCOOL FERROSTAR MBF	• (ME EP)	–	–	0.97	9.6	M, H	•	Cast iron, steel, alloyed steel, Al*	Cooling lubricant for general machining and especially for nodular cast iron (GGG-GJS, GJV, GJL) and higher alloyed steels. Strong cooling, wetting and flushing effect. Low add-on concentration required. Approvals: GROB and DMG MORI
	20 L (Canister), 205 L (Drum), 1000 L (IBC), Tank Truck								
ECOCOOL AFC 1515 LC-K NEW Advanced Circular Technologies	• (EP)	–	–	0.95	9.4	S, M, H	•	Steel, stainless steel, Al	Sustainable cooling lubricant for high-alloy steels and aluminium. Also for galvanised alloys
	205 L (Drum)								
ECOCOOL LCF 1515 Advanced Circular Technologies	• (EP)	–	–	0.96	9.4	S, M, H	•	Steel, stainless steel, Al, Ti, Ni	Sustainable, label-free cooling lubricant for high-alloy steels and aluminium. Easy machining of titanium and nickel alloys possible. Good bi-metal corrosion properties.
	20 L (Canister), 205 L (Drum)								
ECOCOOL VHCM-I CP	–	• (ME)	–	0.99	9.6	S, M, H	•	Steel, cast iron	Cooling lubricant for general machining and grinding. Particularly suitable for steel and cast iron materials. Very good corrosion protection properties. Low add-on concentration required
	20 L (Canister), 205 L (Drum), 1000 L (IBC), Tank Truck								
ECOCOOL MACH 15 NEW Advanced Circular Technologies	–	• (ME)	–	0.99	9.7	S, M, H	•	Steel, cast iron	Cooling lubricant based on sustainable mineral oil for general machining and grinding. Particularly suitable for steel and cast iron materials with good corrosion protection. Low add-on concentration required.
	20 L (Canister), 205 L (Drum), 1000 L (IBC), Tank Truck								
ECOCOOL 2516 MG-DC	•	–	–	0.97	9.1	H	•	Al*, Mg	High-quality, universally applicable cooling lubricant. Especially for machining magnesium. Preparation water hardness >30 °dH; stable up to 200 °dH without deposits.
	205 L (Drum), 1000 L (IBC)								

ME = Micro-emulsion; EP = EP additivation; ME EP = Micro-emulsion with EP additives; S = Water hardness: Soft; M = Water hardness: Medium; H = Water hardness: Hard;
* = Check compatibility with critical alloys; • = Yes; – = No; (•) = Limited

Metalworking Fluids – Water-miscible

Product name	Milky emulsion	Translucent emulsion	Solution/ Fully synthetic	Density at 15 °C	pH value 5%	Mixing water hardness	Boron-free	Material recommendation	Main application areas
ECOCOOL S-LINE									
ECOCOOL S-FC VW	–	–	• (EP)	1.05	9.4	S, M	•	Steel, cast iron	Fully synthetic cooling lubricant for grinding and machining cast iron and steel. Extremely low-foaming with good wetting and rinsing effect. Leaves no sticky residues.
	20 L (Canister), 205 L (Drum), 1000 L (IBC)								
ECOCOOL S-CO 5 BF	–	–	•	1.10	9.0	S, M	•	Carbide, non-ferrous metal	Fully synthetic cooling lubricant for machining and grinding hard metals. Reduces cobalt dissolution and soap formation. Low foaming and low additive concentration required. Can also be used for copper machining.
	20 L (Canister), 205 L (Drum)								
ECOCOOL S-G 2	–	–	• (EP)	1.06	8.8	S, M	•	Steel, Al*	Fully synthetic cooling lubricant for the highest requirements when machining and grinding steel and aluminium alloys. Low-foaming and suitable for soft water and higher pressures. Low add-on concentration required.
	205 L (Drum), 1000 L (IBC)								
ECOCOOL S-GSK NEW	–	–	•	1.05	9,1	S, M	•	Glass, ceramics plastics	Fully synthetic cooling lubricant for glass, ceramics, plastics and composite materials.
	205 L (Drum)								
ECOCOOL S-ZNS	–	–	• (EP)	1.05	8.6	S, M, H	•	Galvanised material, steel	Fully synthetic cooling lubricant for machining galvanised materials. Prevents staining of zinc and is therefore recommended for machining galvanised pipes and profiles. Suitable for hard water without the formation of whitish residues!
	205 L (Fass)								

ECOCOOL

Product name	Milky emulsion	Translucent emulsion	Solution/ Fully synthetic	Density at 15 °C	pH value 5%	Mixing water hardness	Boron-free	Material recommendation	Main application areas
DMG MORI and DMQP Approved Water-miscible Metalworking Fluids									
ECOCOOL FERROSTAR MBF	• (ME EP)	–	–	0.97	9.6	M, H	•	Cast iron, steel, alloyed steel, Al*	Cooling lubricant for general machining and especially for nodular cast iron (GGG-GJS, GJV, GJL) and higher alloyed steels. Strong cooling, wetting and flushing effect. Low add-on concentration required.
	20 L (Canister), 205 L (Drum), 1000 L (IBC), Tank Truck								
ECOCOOL GLOBAL 1000	• (EP)	–	–	0.99	9.4	S, M, H	•	Steel, stainless steel, Al, Ti, Ni	Cooling lubricant for high-performance metalworking, especially for the aerospace, medical technology, semiconductor supply industry, energy technology and mechanical engineering sectors.
	20 L (Canister), 205 L (Drum), 1000 L (IBC)								
ECOCOOL VHCM - 1K	–	• (ME)	–	0.99	9.5	S, M	•	Steel, cast iron	Cooling lubricant for general machining and grinding. Low add-on concentration required. Suitable for turning, drilling, milling and grinding.
	205 L (Drum), 1000 L (IBC), Tank Truck								
ECOCOOL AFC-IDM	• (EP)	–	–	0.94	9.3	S, M, H	•	Steel, alloy steel, Al*	Universal product for mixed machining of many metal alloys.
	20 L (Canister), 205 L (Drum), 1000 L (IBC), Tank Truck								
ECOCOOL S-FC IDM	–	–	•	1.05	9.5	S, M	•	Steel, cast iron, Al*	Fully synthetic cooling lubricant for grinding and machining cast iron, steel and conventional aluminium alloys.
	205 L (Drum), 1000 L (IBC)								
ECOCOOL MACH 300	• (EP)	–	–	1.01	9.2	M, H	•	Steel, stainless steel, Al	Multifunctional cooling lubricant with a wide range of applications. Particularly suitable for aluminium prone to staining with high surface quality.
	20 L (Canister), 205 L (Drum), 1000 L (IBC), Tank Truck								

DMG MORI TECHNOLOGY PARTNER FUCHS

DMQP DMG MORI QUALIFIED PRODUCTS

ME = Micro-emulsion; EP = EP additivation; ME EP = Micro-emulsion with EP additives;
S = Water hardness: Soft; M = Water hardness: Medium; H = Water hardness: Hard;
* = Check compatibility with critical alloys; • = Yes; – = No; (•) = Limited

Metalworking Fluids – Water-miscible

Product name	Milky emulsion	Translucent emulsion	Solution/ Fully synthetic	Density at 15 °C	pH value 5%	Mixing water hardness	Boron-free	Material recommendation	Main application areas
DMG MORI and DMQP Approved Water-miscible Metalworking Fluids									
ECOCOOL SCE-IDM **NEW**	• (EP)	–	–	0.96	8.2	M, H	•	Ti, stainless steel, Al	Semi-synthetic cooling lubricant for SEMICON GRADE 1 and 2 applications. Qualified to ASML GRADE 2 specification. Formulated without the critical HIO elements (P, Si, Sn and Zn). Excellent compatibility with critical aluminium 5083.
	205 L (Drum), 1000 L (IBC)								
ECOCOOL SCS-IDM **NEW**	–	–	• (EP)	1.06	8.0	S, M	•	Ti, stainless steel, Al	Fully synthetic cooling lubricant for SEMICON GRADE 1 and 2 applications. Qualified to ASML GRADE 2 specification. Formulated without the critical HIO elements (P, Si, Sn and Zn). Excellent compatibility with critical aluminium 5083.
	205 L (Drum)								
ECOCOOL SCG-IDM **NEW**	–	–	•	1.05	9.1	S, M	•	Glass, ceramics, plastics	Fully synthetic cooling lubricant for glass, ceramics, plastics and composite materials. Formulated without the critical HIO elements (P, Si, Sn and Zn). Semiconductor, optical and dental industry.
	205 L (Drum)								

DMG MORI TECHNOLOGY PARTNER FUCHS

DMQP DMG MORI QUALIFIED PRODUCTS

ME = Micro-emulsion; EP = EP additivation; ME EP = Micro-emulsion with EP additives;
S = Water hardness: Soft; M = Water hardness: Medium; H = Water hardness: Hard;
* = Check compatibility with critical alloys; • = Yes; – = No; (•) = Limited

ECOCOOL

Product name	Milky emulsion	Translucent emulsion	Solution/ Fully synthetic	Density at 15 °C	pH value 5%	Mixing water hardness	Boron-free	Material recommendation	Main application areas
Machining of Aluminium									
ECOCOOL AFC 1515 LC-K **NEW** Advanced Circular Technologies	• (EP)	–	–	0.95	9.4	S, M, H	•	Steel, stainless steel, Al	Sustainable cooling lubricant for high-alloy steels and aluminium. Also for galvanised alloys
205 L (Drum)									
ECOCOOL GLOBAL 1000	• (EP)	–	–	0.99	9.4	S, M, H	•	Steel, stainless steel, Al, Ti, Ni	Cooling lubricant for high-performance metalworking, especially for the aerospace, medical technology, semiconductor supply industry, energy technology and mechanical engineering sectors. Approvals: Medical, DMG MORI, Rolls-Royce, Airbus, Safran, GROB, qualified to ASML GRADE 2 specification
20 L (Canister), 205 L (Drum), 1000 L (IBC)									
ECOCOOL S-G 2	–	–	• (EP)	1.06	8.8	S, M	•	Steel, Al*	Fully synthetic cooling lubricant for the highest requirements when machining and grinding steel and aluminium alloys. Low-foaming, suitable for soft water and higher pressures. Low add-on concentration required.
205 L (Drum), 1000 L (IBC)									
ECOCOOL MACH 300	• (EP)	–	–	1.01	9.2	M, H	•	Steel, stainless steel, Al	Multifunctional cooling lubricant with a wide range of applications. Particularly suitable for aluminium prone to staining with high surface quality.
20 L (Canister), 205 L (Drum), 1000 L (IBC), Tank Truck									
Machining of Non-Ferrous Metals (Copper, Brass, Bronze)									
ECOCOOL AFB 300	• (EP)	–	–	1.01	9.1	M, H	•	Steel, stainless steel, Al, Ni, non-ferrous metals	Cooling lubricant particularly suitable for machining non-ferrous metals containing zinc, whereby the formation of zinc soaps is avoided. **Not suitable for use with non-ferrous metals with a high lead content.**
205 L (Drum), 1000 L (IBC)									
Machining of Magnesium									
ECOCOOL 2516 MG-DC	•	–	–	0.97	9.1	H	•	Al*, Mg	High-quality, universally applicable cooling lubricant. Especially for machining magnesium. Preparation water hardness >30 °dH; stable up to 200 °dH without deposits.
205 L (Drum), 1000 L (IBC)									

Metalworking Fluids – Water-miscible

Product name	Milky emulsion	Translucent emulsion	Solution/ Fully synthetic	Density at 15 °C	pH value 5%	Mixing water hardness	Boron-free	Material recommendation	Main application areas
Machining of Cast Iron and Low-Alloy Steels									
ECOCOOL FERROSTAR MBF	• (ME EP)	–	–	0.97	9.6	M, H	•	Cast iron, steel, alloyed steel, Al*	Cooling lubricant for general machining and especially for nodular cast iron (GGG-GJS, GJV, GJL) and higher alloyed steels. Strong cooling, wetting and flushing effect. Low add-on concentration required. Approvals: GROB and DMG MORI
	20 L (Canister), 205 L (Drum), 1000 L (IBC), Tank Truck								
ECOCOOL VHCM-I CP	–	• (ME)	–	0.99	9.6	S, M, H	•	Steel, cast iron	Cooling lubricant for general machining and grinding. Particularly suitable for steel and cast iron materials. Very good corrosion protection properties. Low add-on concentration required.
	20 L (Canister), 205 L (Drum), 1000 L (IBC), Tank Truck								
ECOCOOL MACH 15 NEW Advanced Circular Technologies	–	• (ME)	–	0.99	9.7	S, M, H	•	Steel, cast iron	Cooling lubricant based on sustainable mineral oil for general machining and grinding. Particularly suitable for steel and cast iron materials with good corrosion protection. Low add-on concentration required.
	20 L (Canister), 205 L (Drum), 1000 L (IBC), Tank Truck								
ECOCOOL MACH 16 NEW Advanced Circular Technologies	–	• (ME)	–	0.99	9.8	S, M, H	•	Steel, cast iron, Al	Cooling lubricant based on sustainable mineral oil for general machining and grinding, especially for steel, aluminium and cast alloys with good corrosion protection, very economical, low additive concentration required. Approval: GROB
	205 L (Drum), 1000 L (IBC)								
Machining of High-Alloy Steels and High-Temperature Materials									
ECOCOOL TN 2530	• (EP)	–	–	0.98	9.4	M, H	•	Steel, alloyed steel, Ti, Ni, Al*	Cooling lubricant with EP active ingredients, universally applicable for aluminium materials, titanium and stainless steels. High pressure stable and low foaming.
	205 L (Drum), 1000 L (IBC)								
ECOCOOL TN 2550 Advanced Circular Technologies	• (EP)	–	–	0.97	9.3	M, H	•	Ti, Al, stainless steel, Ni	High-performance machining of difficult-to-cut materials. Mineral oil-free and sustainable formulation. Approvals: MTU and GROB
	205 L (Drum), 1000 L (IBC)								
ECOCOOL GLOBAL 1000	• (EP)	–	–	0.99	9.4	S, M, H	•	Steel, stainless steel, Al, Ti, Ni	Cooling lubricant for high-performance metalworking, especially for the aerospace, medical technology, semiconductor supply industry, energy technology and mechanical engineering. Approvals: Medical, DMG MORI, Rolls-Royce, Airbus, Safran, GROB, qualified to ASML GRADE 2 specification
	20 L (Canister), 205 L (Drum), 1000 L (IBC)								

ECOCOOL

Product name	Milky emulsion	Translucent emulsion	Solution/ Fully synthetic	Density at 15 °C	pH value 5%	Mixing water hardness	Boron-free	Material recommendation	Main application areas
Special Products									
ECOCOOL GS 2000	–	–	•	1.05	8.0	–	•	Cast iron, steel	Thread cutting agent for drinking water pipes with DVGW approval. Coloured red.
	205 L (Drum), 1000 L (IBC)								
ECOCOOL S-CO 5 BF	–	–	•	1.10	9.0	S, M	•	Carbide, non-ferrous metal	Fully synthetic cooling lubricant for machining and grinding Carbide. Reduces cobalt dissolution and soap formation. Low foaming and low additive concentration required. Can also be used for copper machining.
	20 L (Canister), 205 L (Drum)								
ECOCOOL S-GSK ***NEW***	–	–	•	1.05	9,1	S, M	•	Glass, ceramics plastics	Fully synthetic cooling lubricant for glass, ceramics, plastics and composite materials.
	205 L (Drum)								
ECOCOOL S-ZNS	–	–	• (EP)	1.05	8.6	S, M, H	•	Galvanised material, steel	Fully synthetic cooling lubricant for machining galvanised materials. Prevents staining of zinc and is therefore recommended for machining galvanised pipes and profiles. Suitable for hard water without the formation of whitish residues!
	205 L (Fass)								

ME = Micro-emulsion; EP = EP additivation; ME EP = Micro-emulsion with EP additives; S = Water hardness: Soft; M = Water hardness: Medium; H = Water hardness: Hard;
* = Check compatibility with critical alloys; • = Yes; – = No; (•) = Limited

Service Additives for Water-miscible Metalworking Fluids

Product name	Description/ features	Application conc. (of the final dilution) [%]	Increasing corrosion protection	Increasing pH value	Main application areas
Top-up Concentrates for Water-miscible Metalworking Fluids ECOCOOL					
ECOCOOL ALKALISATOR G	Primary alkanolamine	0.1 - 0.5 in stages	(•)	•	Increases the pH value.
	20 L (Canister), 200 L (Drum)				
ECOCOOL AKTIV CU	Copper deactivator	0.1 - 0.3	•	–	Prevents stains and green discoloration of non-ferrous metals. Prevents copper corrosion.
	20 L (Canister)				
ECOCOOL AKTIV ALU	Against stains on aluminium	0.1 - 0.15	•	–	Prevents aluminium discolouration. Prevents aluminium corrosion. Not suitable for synthetic cooling lubricants.
	20 L (Canister)				
NETZMITTEL 12	Wetting agent	0.05 - 0.2	–	–	Improvement of the wetting behaviour.
	20 L (Canister)				
ECOCOOL AKTIV CPO	Corrosion protection for ferrous metals	0.3 - 0.5	•	–	Improves the corrosion protection of emulsions and synthetic coolants.
	20 L (Canister), 205 L (Drum), 1000 L (IBC)				
Defoamer Synergistically Matched to Water-miscible Metalworking Fluids ECOCOOL					
ANTIFOAM 46	Si-organic compound	0.0025 - 0.005	–	–	Standard defoamer for emulsions and synthetic solutions. Before use, dilute 1:1 with the processing medium in use and add slowly.
	5 L (Canister), 20 L (Canister)				
ANTIFOAM 46 W	Si-organic compound	0.005 - 0.01	–	–	Corresponds to ANTIFOAM 46 with solubiliser, therefore very good distribution.
	5 L (Canister)				
ANTIFOAM 1860	Si-organic compound	0.005 - 0.01	–	–	Standard defoamer for emulsions and synthetic solutions. Before use, dilute 1:1 with the processing medium in use and add slowly.
	5 L (Canister)				
ANTIFOAM 51 G	Si-organic compound	0.007 - 0.015	–	–	With solubiliser, good distribution.
	5 L (Canister), 205 L (Drum)				
ANTIFOAM LC 30 W	Si-organic compound	0.008 - 0.015	–	–	Mixture of different defoamers. Very wide range of applications. With solubiliser; no dilution necessary.
	5 L (Canister), 20 L (Canister)				
ANTIFOAM WS 1	Ca-hardening compound	from 0.01	–	–	Hardening agent to increase the water hardness. As a rule, 0.01% raises the water hardness by approx. 1 °dH, max. hardening to 30 °dH.
	5 L (Canister), 20 L (Canister)				

ECOCOOL

Product name	Application concentration (of the final dilution) [%]	Fungicide	Bactericide	pH value effect	Main application areas
Formaldehyde-free Bactericides and Fungicides for the Maintenance of Water-miscible Metalworking Fluids ECOCOOL					
ACTICIDE MBS	0.1 - 0.2	•	•	–	Combination of fungicide and bactericide for emulsions and synthetic solutions
	25 kg (Canister), 200 kg (Drum), 1000 L (IBC)				
ACTICIDE MV	0.1 - 0.2	(•)	•	–	Fast-acting bactericide for emulsions and synthetic solutions
	5 kg (Canister), 25 kg (Canister), 1000 L (IBC)				
Vinkocide KTL ***NEW***	0.1 - 0.2	•	•	–	Combination of fungicide and bactericide for emulsions and synthetic solutions
	5 kg (Canister)				

ME = Micro-emulsion; EP = EP additivation; ME EP = Micro-emulsion with EP additives; S = Water hardness: Soft; M = Water hardness: Medium; H = Water hardness: Hard;
* = Check compatibility with critical alloys; • = Yes; – = No; (•) = Limited

Metalworking Fluids – Non-water-miscible



Product name	Kin. visc. at 40 °C [mm²/s]	Density at 15 °C	Flash point [°C]	Steel	High-alloy steel	Alumi-nium	Copper, copper alloys	Main application areas
ECOCUT Series								
ECOCUT HFN 5 LE-HC	4.4	0.83	136	•	–	•	•	Multi-purpose cutting oils with low oil mist and low evaporation, copper inactive for grinding and for machining with geometrically defined cutting edges. The low-viscosity variants (4 and 10) are also suitable for honing; ECOCUT HFN 32 LE can also be used as hydraulic oil HLP (multifunctional oil).
	205 L (Drum), 1000 L (IBC), Tank Truck							
ECOCUT HFN 22 LE	21.7	0.84	212	•	–	•	•	
	205 L (Drum), 1000 L (IBC)							
ECOCUT HFN 32 LE	30	0.85	200	•	–	•	•	
	205 L (Drum), 1000 L (IBC), Tank Truck							
ECOCUT HFN 10 LE-R Advanced Circular Technologies	11.1	0.84	160	•	•	•	•	Multi-purpose cutting oil based on sustainable, resource-saving mineral oil for machining steel and non-ferrous metals. Universally applicable, also suitable for grinding. Low oil mist and low evaporation for machining with geometrically defined cutting edge. ECOCUT HFN 10 LE-R can also be used for honing. Promotes the circular economy; conserves resources and is sustainable for the environment. ECOCUT HFN 16 LE-R is also suitable for machining magnesium
	1000 L (IBC), Tank Truck							
ECOCUT HFN 16 LE-R Advanced Circular Technologies	16	0.85	190	•	–	•	•	
	205 L (Drum), 1000 L (IBC)							

ECOCUT

Product name	Kin. visc. at 40 °C [mm²/s]	Density at 15 °C	Flash point [°C]	Steel	High-alloy steel	Alumi-nium	Copper, copper alloys	Main application areas
ECOCUT 500 Series								
ECOCUT 522	24	0.89	204	•	•	–	–	High-performance cutting oil with special additive for machining and in particular thread cutting and deep hole drilling of high-alloy materials (stainless steel).
	205 L (Drum)							
ECOCUT 600 Series								
ECOCUT 610 A	10	0.85	160	•	•	–	–	Cutting oil for machining operations with a defined cutting edge for machining alloyed steels. Polar and chemically active additives reduce friction and increase tool life. The oils are low in oil mist and zinc-free. ECOCUT 628 LE is frequently used in gear manufacturing.
	1000 L (IBC), Tank Truck							
ECOCUT 615 A	17	0.87	200	•	•	–	–	
	205 L (Drum), 1000 L (IBC), Tank Truck							
ECOCUT 628 LE	26	0.86	210	•	•	–	–	
	205 L (Drum), 1000 L (IBC), Tank Truck							
ECOCUT LCF 615 LE Advanced Circular Technologies	15.5	0.85	198	•	•	–	–	Cutting oil based on sustainable, resource-saving mineral oil for cutting operations with a defined cutting edge for machining alloyed steels. Polar and chemically active additives reduce friction and increase tool life. Promotes the circular economy; conserves resources and is sustainable for the environment.
	205 L (Drum), 1000 L (IBC)							
ECOCUT 700 Series								
ECOCUT 710 LE	10	0.85	174	•	•	–	–	High-performance oils with high EP additivation and universally applicable for machining high-alloy steels (Cr-Ni steels). In gear machining for hobbing, broaching and deep drilling; zinc-free, low oil mist. ECOCUT 717 EK is powerful, universally applicable and at the same time suitable for stainless steel and all non-ferrous metals as well as for lead-free brass.
	205 L (Drum), 1000 L (IBC)							
ECOCUT 715 LE	16.9	0.87	200	•	•	–	–	
	20 L (Canister), 205 L (Drum), 1000 L (IBC)							
ECOCUT 717 EK	18.1	0.89	196	•	•	–	•	
	205 L (Drum), 1000 L (IBC), Tank Truck							
ECOCUT 720 LE	20.6	0.87	210	•	•	–	–	
	205 L (Drum), 1000 L (IBC)							

• = suitable; – = not suitable; (•) – Check compatibility with critical alloys

Metalworking Fluids – Non-water-miscible

Product name	Kin. visc. at 40 °C [mm²/s]	Density at 15 °C	Flash point [°C]	Steel	High-alloy steel	Alumi-nium	Copper, copper alloys	Main application areas
ECOCUT 700 Series								
ECOCUT LCF 714 Advanced Circular Technologies	14	0.87	180	•	•	•	–	High-performance oil based on sustainable, resource-saving mineral oil with high EP additivation for machining high-alloy steels. Universal in gear machining for hobbing, broaching and deep drilling, grinding. Zinc-free, low-foaming, low-odour. Promotes the circular economy; saves resources and is sustainable for the environment.
	205 L (Drum), 1000 L (IBC)							
ECOCUT 800 Series								
ECOCUT 8532	32	0.94	202	•	•	–	–	Broaching and special oils for heavy-duty cutting and machining of high-alloy (including stainless) steels, particularly suitable for vertical and horizontal broaching of splines and grooves. Low oil mist, zinc-free, high EP additivation.
	205 L (Drum), 1000 L (IBC)							
ECOCUT 8536 S	39.8	0.95	200	•	•	–	–	
	205 L (Drum)							

• = suitable; – = not suitable; (•) – Check compatibility with critical alloys

ECOCUT

Product name	Kin. visc. at 40 °C [mm²/s]	Density at 15 °C	Flash point [°C]	Steel	High-alloy steel	Alumi-nium	Copper, copper alloys	Main application areas
Universal for Steel and Non-ferrous Metals								
ECOCUT HFN 15 GB 1	15.4	0.85	180	•	•	–	•	High-strength cutting oil based on high-quality HC base oils with a high additive content. This special copper-inactive formulation is suitable for cutting steel, high-alloy materials up to and including non-ferrous metals. Another area of application is medical technology, as described below.
	20 L (Canister), 205 L (Drum), 1000 L (IBC)							
ECOCUT FT 11 HP	10.8	0.83	194	•	•	•	•	High-performance cutting oil on a GTL base oil for universal machining of high-alloy steels through to copper alloys. Odourless, high flash point, low evaporation, excellent foaming properties.
	205 L (Drum), 1000 L (IBC)							
ECOCUT FT Series – Based on GTL								
ECOCUT FT 7 WSO	6.5	0.80	175	•	Especially for hard metal	–	•	Grinding oil based on GTL base oil especially for grinding/sharpening carbide tools, prevents cobalt dissolving, suitable for ultra-fine filter systems. Also suitable for sharpening HSS tools.
	205 L (Drum)							
ECOCUT FT 11 HP	10.8	0.83	194	•	•	•	•	High-performance cutting oil based on GTL base oil for universal machining of high-alloy steels through to copper alloys. Odourless, high flash point, low evaporation, excellent foaming properties.
	205 L (Drum), 1000 L (IBC)							
***NEW:* ECOCUT NEXT Series**								
ECOCUT LCF 16 NEXT ***NEW*** Advanced Circular Technologies	16	0.85	206	•	–	–	•	High-performance oil based on sustainable, resource-saving mineral oil, universally applicable and at the same time suitable for stainless steel and all non-ferrous metals as well as for lead-free brass. No use of reach-critical additives. Available throughout Europe Promotes the circular economy, conserves resources and is sustainable for the environment.
	205 L (Drum)							

Metalworking Fluids – Non-water-miscible

Product name	Kin. visc. at 40 °C [mm²/s]	Density at 15 °C	Flash point [°C]	Steel	High-alloy steel	Alumi-nium	Copper, copper alloys	Main application areas
ECOCUT ACT Series – Based on Sustainable, Resource-saving Base Fluids								
ECOCUT LCF 218 Advanced Circular Technologies	18	0.86	195	•	(•)	•	•	High-performance cutting oil based on sustainable, resource-saving mineral oil for machining steel and non-ferrous metals; also suitable for grinding. Can be used universally in machining centres and multi-spindle machines. Odourless, high flash point. Promotes the circular economy; conserves resources and is sustainable for the environment.
	205 L (Drum), 1000 L (IBC)							
ECOCUT LCF 714 Advanced Circular Technologies	14	0.87	180	•	•	•	–	High-performance oil based on sustainable, resource-saving mineral oil with high EP additivation and universally applicable for machining high-alloy steels. Universal in gear machining for hobbing, broaching and deep drilling, grinding. Zinc-free, low-foaming, low-odour. Promotes the circular economy, conserves resources and is sustainable for the environment
	205 L (Drum)							
ECOCUT HFN 10 LE-R Advanced Circular Technologies	11.1	0.84	160	•	•	•	•	Cutting oils based on sustainable, resource-saving mineral oil for machining steel and non-ferrous metals. Universally applicable, also suitable for grinding. Low oil mist and low evaporation for machining with geometrically defined cutting edges. ECOCUT HFN 10 LE-R can also be used for honing. Promotes the circular economy; conserves resources and is sustainable for the environment.
	1000 L (IBC), Tank Truck							
ECOCUT HFN 16 LE-R Advanced Circular Technologies	15.7	0.85	190	•	–	•	•	
	205 L (Drum), 1000 L (IBC)							
ECOCUT LCF 615 LE Advanced Circular Technologies	15.5	0.85	198	•	•	–	–	Cutting oil based on sustainable, resource-saving mineral oil for machining operations with a defined cutting edge, for machining alloyed steels. Polar and chemically active additives reduce friction and increase tool life. Promotes the circular economy; conserves resources and is sustainable for the environment.
	205 L (Drum), 1000 L (IBC)							
ECOCUT LCF 16 NEXT NEW Advanced Circular Technologies	16	0.85	206	•	–	–	•	High-performance oil based on sustainable, resource-saving mineral oil High-performance, universally applicable and at the same time suitable for stainless steel and all non-ferrous metals as well as for lead-free brass. No use of reach-critical additives. Available throughout Europe Promotes the circular economy, conserves resources and is sustainable for the environment.
	205 L (Drum)							

• = suitable; – = not suitable; (•) – Check compatibility with critical alloys

ECOCUT, *PLANTO*

Product name	Kin. visc. at 40 °C [mm²/s]	Density at 15 °C	Flash point [°C]	Steel	High-alloy steel	Alumi-nium	Copper, copper alloys	Main application areas
PLANTOCUT Series – Based on Renewable Raw Materials								
PLANTOCUT 10 SR Advanced Circular Technologies	10.4	0.86	206	•	•	•	•	Rapidly biodegradable ester-based cutting oils. Particularly recommended for machining with geometrically defined cutting edges such as turning, milling, drilling, etc. Low evaporation and oil mist; H304 free.
	20 L (Canister), 205 L (Drum), 1000 L (IBC)							
PLANTOCUT 22 AC Advanced Circular Technologies	22	0.89	215	•	•	•	•	
	205 L (Drum)							
PLANTOCUT 40 SR Advanced Circular Technologies	40.4	0.92	216	•	•	•	•	
	205 L (Drum), 1000 L (IBC)							

Metalworking Fluids – Non-water-miscible

Product name	Kin. visc. at 40 °C [mm²/s]	Density at 15 °C	Flash point [°C]	Steel	High-alloy steel	Alumi-nium	Copper, copper alloys	Main application areas
Minimum Quantity Lubrication (MQL)								
PLANTO MIKRO UNI Advanced Circular Technologies	15.1	0.88	200	•	–	•	•	Ester-based minimum quantity lubricant (MQL) with a high EP level, universally applicable for all materials. Suitable for all spray systems. Machine manufacturer approvals: DROPSA, GROB, KNOLL, TKM
	20 L (Canister), 205 L (Drum)							
PLANTO MIKRO 30 HD Advanced Circular Technologies	30.5	0.92	211	•	•	•	–	Ester-based minimum quantity lubricant (MQL) with a very high EP level. Can be used for low to high-alloy steels and aluminium alloys. Suitable for all spray systems. Machine manufacturer approvals: DROPSA, GROB, TKM
	20 L (Canister)							
ECOCUT MIKRO PLUS 20	27	0.84	188	•	–	•	•	Minimum quantity lubricant (MQL) based on fatty alcohol. Suitable for machining aluminium, but also cast iron, non-ferrous metals and steel. Evaporates very well. Suitable for all spray systems. Machine manufacturer approvals: DROPSA, GROB, KNOLL, SKF, TKM Customer approvals: Boeing, Bombardier, Embraer
	20 L (Canister), 205 L (Drum), 1000 L (IBC)							
ECOCUT MIKRO 20 D	28.1	0.84	188	•	–	•	•	Minimum quantity lubricant (MQL) based on fatty alcohol. Suitable for machining aluminium, cast iron, non-ferrous metals and steel. Evaporates very well. Improved cleaning performance. Suitable for all spray systems. Machine manufacturer approvals: DROPSA, GROB, TKM
	20 L (Canister), 205 L (Drum)							
ECOCUT MIKRO LCF 20 D Advanced Circular Technologies	28.1	0.85	198	•	–	•	•	Fatty alcohol minimum quantity lubricant (MQL) based on renewable raw materials. Suitable for machining aluminium, non-ferrous metals and steel. Evaporates very well. Improved cleaning performance. Suitable for all spray systems. Machine manufacturer approvals: DROPSA, GROB, KNOLL, TKM
	20 L (Canister), 205 L (Drum)							
ECOCUT MIKRO PLUS 82	19.5	0.84	172	•	–	•	•	Minimum quantity lubricant (MQL) based on fatty alcohol. Suitable for machining aluminium, but also cast iron, non-ferrous metals and steel. Evaporates almost residue-free. Suitable for all spray systems. Machine manufacturer approvals: DROPSA, GROB, KNOLL, SKF, TKM Customer approval: Boeing
	20 L (Canister), 205 L (Drum), 1000 L (IBC)							

• = suitable; – = not suitable; (•) – Check compatibility with critical alloys

ECOCUT, *PLANTO*

Product name	Kin. visc. at 40 °C [mm²/s]	Density at 15 °C	Flash point [°C]	Hard metal	HSS steel	Main application areas
Specific Application – Tool Grinding						
ECOCUT FT 7 WSO	6.5	0.80	175	•	•	Grinding oil based on GTL base oil, for grinding carbide tools, prevents cobalt dissolving. Further application: Sharpening of HSS tools. Suitable for ultra-fine filter systems, aromatic-free.
	205 L (Drum)					
ECOCUT HS	5.5	0.80	160	•	•	PAO-based grinding oil, universally applicable for grinding and sharpening HSS and carbide, aromatic-free, suitable for ultra-fine filter systems.
	205 L (Drum), 1000 L (IBC), Tank Truck					

Product name	Kin. visc. at 40 °C [mm²/s]	Density at 15 °C	Flash point [°C]	Steel	High-alloy steel	Alumi-nium	Copper, copper alloys	Main application areas
Specific Application – Gear Machining								
ECOCUT 628 LE	26	0.86	210	•	•	–	–	Can be used universally for all gear machining processes (shaping, hobbing, scraping, etc.).
	205 L (Drum), 1000 L (IBC), Tank Truck							
ECOCUT 720 LE	20.6	0.87	210	•	•	–	–	
	205 L (Drum), 1000 L (IBC)							
ECOCUT HFN 13 LE UNI	13	0.84	194	•	•	•	•	Universally applicable for gear grinding and machining. Approved by leading grinding machine manufacturers, low oil mist and low evaporation, also available in other viscosities on request. As H304 free version ECOCUT HFN 13 LE UNI CLP.
	205 L (Drum), 1000 L (IBC)							
Specific Application – EDM								
ECOCUT FE	4.1	0.81	133	•	•	•	•	Dielectric, preferably for roughing, aromatic-free.
	205 L (Drum), 1000 L (IBC)							
ECOCUT 1520	2.4	0.82	101	•	•	•	•	Dielectric can be used for both roughing and finishing. Despite low viscosity FLP >100 °C.
	20 L (Canister), 205 L (Drum), 1000 L (IBC)							

Metalworking Fluids – Non-water-miscible

Product name	Kin. visc. at 40 °C [mm²/s]	Density at 15 °C	Flash point [°C]	Steel	High-alloy steel	Alumi-nium	Copper, copper alloys	Main application areas
Specific Application – Threading								
ECOCUT 522	24	0.89	204	•	•	–	(•)	High-performance cutting oil with chlorine-free EP additive. Especially for thread machining of stainless steels and other machining operations on high-alloy materials.
	205 L (Drum)							
Specific Applications – Honing, Finishing								
ECOCUT HFN 5 LE-HC	4.4	0.83	136	•	(•)	•	•	Honing oil for steel and cast materials, also suitable for superfinishing and power honing.
	205 L (Drum), 1000 L (IBC), Tank Truck							
ECOCUT GBS 5	5	0.83	150	•	(•)	•	•	For honing and grinding mainly steel and cast materials, also in the ball bearing industry.
	1000 L (IBC)							
ECOCUT FE	4.1	0.81	133	•	•	•	•	Cutting oil for honing and finishing, based on white oil, aromatic-free
	205 L (Drum), 1000 L (IBC)							
Specific application – Medical Technology								
PLANTOCUT 10 SR	10.4	0.86	206	•	•	•	•	Rapidly biodegradable ester-based cutting oil for use in medical technology. Can be used for turning, milling, drilling, etc. Low evaporation and oil mist; H304 free. Cytotoxicity: EN ISO 10993-1, EN ISO 10993-5, EN ISO 10993-12
	20 L (Canister), 205 L (Drum), 1000 L (IBC)							
ECOCUT HFN 15 GB 1	15.4	0.85	180	•	•	–	•	Cutting oil for the machining of highly alloyed, difficult-to-cut materials (titanium, CoCr and nickel alloys, medical steels), which are used in medical technology. Cytotoxicity: EN ISO 10993-1, EN ISO 10993-5, EN ISO 10993-12, DMQP Medical product
	20 L (Canister), 205 L (Drum), 1000 L (IBC)							
ECOCUT 7520 LE-M	16.5	0.86	214	•	•	–	–	High-performance cutting oil to reduce tool wear; for the machining of high-alloyed, extremely hard-to-cut materials (titanium, CoCr and nickel alloys, medical steels). Cytotoxicity: EN ISO 10993-1, EN ISO 10993-5, EN ISO 10993-12
	205 L (Drum), 1000 L (IBC)							
ECOCUT FT II MED ***NEW***	10	0.81	204	•	•	•	•	Cutting oil based on GTL base oil for universal machining and for grinding high-alloy materials (titanium, CoCr and nickel alloys, aluminium, non-ferrous metals and medical steels). Odourless, high flash point, low evaporation, excellent foaming properties. Cytotoxicity: EN ISO 10993-1, EN ISO 10993-5, EN ISO 10993-12.
	205 L (Drum), 1000 L (IBC)							

Service Additives for Non-water-miscible Metalworking Fluids

ECOCUT, *PLANTO*

Product name	Kin. visc. at 40 °C [mm²/s]	Copper active	Application concentration [%]	Main application areas
Adjusting Concentrates for Cutting Oils				
ECOCUT PLUS KWU	35	•	1 - 100	Adjusting concentrate to improve cutting performance, tool life and surface finish.
	20 L (Canister)			
ECOCUT PLUS 800	28	•	1 - 100	Adjusting concentrate to improve cutting performance, tool life and surface finish; especially for the ECOCUT 800 Series.
	20 L (Canister), 1000 L (IBC)			

ANTIFOAM Defoamer for cutting oils – Products available on request

• = suitable; – = not suitable; (•) – Check compatibility with critical alloys

THERMISOL becomes RENOQUENCH

For many years, the products in the THERMISOL range have been successfully used as high-quality quenching fluids for heat treatment applications. As part of a brand consolidation, the renaming of this FUCHS lead brand has now taken place.

The new name RENOQUENCH is made up of two parts: RENO is a well-known prefix in the lubricant world, which is closely associated with the FUCHS company and its history. QUENCH is based on the English word "quenching".

Important for you: The formulation of the products remains identical. This means that the chemical composition and physical properties of the products remain completely unchanged.



Quenching Fluids

RENOQUENCH

Product name	Kin. Visc. at 40 °C [mm²/s]	Density at 15 °C [g/ml]	Flash-point [°C]	Temperature range bath temperature [°C]	Main application area
Quenching Oils based on Mineral Oil					
RENOQUENCH QB 32	31	0.86	231	40 – 90	Quenching oils based on mineral oil are usually conventional solvates containing a relatively low level of additives. These oils are generally used to quench components made of high-alloy materials and with simple geometries. They are mainly used for the heat treatment of distortion-resistant components.
	205 L (Drum), 1000 L (IBC), Tank Truck				
RENOQUENCH QB 46	43.7	0.87	230	40 – 90	
	205 L (Drum), Tank Truck				
High-performance Quenching Oil based on Mineral Oil					
RENOQUENCH QH 10	11.9	0.85	178	40 – 100	High performance quenching oils usually contain high levels of additives and special agents which accelerate component wetting. High performance quenching oils are normally based on conventional solvates. They are widely used because optimized wetting behaviour makes them suitable for warp-prone components. Depending on the viscosity and the flash point these quenching oils can also be used as hot bath and martempering oils.
	205 L (Drum), 1000 L (IBC)				
High-performance Quenching Oils based on Hydrocrack Oil					
RENOQUENCH QH 10 MC	11.8	0.83	172	40 – 80	High performance quenchants based on high-quality, low evaporation and low-aromatic hydrocracked oils. MC - the key is a special manufacturing process in which natural mineral oil is converted by hydrocracking, i.e. under high pressure and high temperatures in the presence of H2 (hydrogen). This creates a more cost-effective base oil which is comparable to synthetic oils. This base oil together with high-quality additives combines the oxidation stability and the optimum wetting properties of high-performance quenching oils with the thermal stability and extremely low evaporation of hydrocracked oils.
	205 L (Drum), 1000 L (IBC)				
RENOQUENCH QH 30 MC	26	0.84	220	40 – 100 (max. 150)	
	205 L (Drum)				
RENOQUENCH QH 35 MC	37	0.84	236	40 – 110 (max. 150)	Universal high-performance quenching oil with best performance values and high process reliability.
	205 L (Drum), 1000 L (IBC)				
Synthetic High-performance Quenching Oils					
RENOQUENCH QHY 10 Advanced Circular Technologies	11	0.87	204	40 – 80	The use of these quenching oils based on synthetic esters is particularly recommended for highly warp-prone components. Apart from their sustainability credentials, these high-performance quenching oils offer a number of other advantages. Synthetic high-performance quenching oils have significantly better wetting properties than their conventional counterparts. These excellent wetting properties ensure that the vapour phase over the whole surface of the component being treated collapses rapidly. This almost simultaneous wetting of the entire component surface significantly reduces the temperature gradients created during quenching and thus ultimately the uneven shape changes known as warping. Depending on the viscosity and the flash point these quenching oils can also be used as hot bath and martempering oils.
	205 L (Drum)				
RENOQUENCH QHY 150 Advanced Circular Technologies	145	0.92	312	40 – 260	
	20 L (Canister), 205 L (Drum)				

Quenching Fluids

RENOQUENCH

Product name	Main application	Quenching intensity	Materials	Properties
Water-miscible Quenchants				
RENOQUENCH PGI 2010	Quenching for induction and flame hardening	Very high	Non-alloy steel	Especially for high corrosion protection requirements.
	205 L (Drum)			
RENOQUENCH QZS 400	Quenching for induction and flame hardening	Very high	Non-alloy steel Low-alloy steel	Limited control of the quenching process through the concentration is possible. Provides increased bath life. Reduces foaming.
	20 L (Canister), 205 L (Drum), 1000 L (IBC)			
RENOQUENCH QZS 700 K-FF	Quenching for induction and flame hardening. Also suitable for immersion quenching	High	Non-alloy steel Low-alloy steel High-alloy steel	Controlled quenching behaviour possible through variation of concentration. Provides increased bath life. Offers a particularly good dissolving capacity. Reduces foaming. Especially for the highest corrosion protection requirements.
	1000 L (IBC)			
RENOQUENCH QZS 400-WB	Quenching for induction and flame hardening. Also suitable for immersion quenching	High	Non-alloy steel Low-alloy steel High-alloy steel	Controlled quenching behaviour possible through variation of concentration. Provides increased bath life. Offers a particularly good dissolving capacity. Reduces foaming. Especially for the highest corrosion protection requirements. Protects copper inductors in induction hardening systems. Machine manufacturer approval: EFD Induction
	205 L (Drum), 1000 L (IBC)			
RENOQUENCH PVM 4000	Immersion quenching of single batches	Medium	Non-alloy steel Low-alloy steel High-alloy steel Tool steel possible	Mild to particularly mild quenching processes can be achieved. Can be used as a substitute for low-viscosity hardening oils.
	205 L (Drum), 1000 L (IBC)			
RENOQUENCH QZS 550 CPO	Immersion quenching of single batches	Low	Non-alloy steel Low-alloy steel High-alloy steel Tool steel possible	Mild to particularly mild quenching processes can be achieved. Can be used as a substitute for low-viscosity hardening oils. Especially for high corrosion protection requirements.
	205 L (Drum)			

Properties water-miscible quenching fluids RENOQUENCH series

General characteristics

- Controlled quenching behaviour possible through variation of concentration
- There is no risk of fire
- No oil vapour is released
- Free of Boron, Formaldehyde and Phenol

QZS 400 and 700 series

- Fast quenching characteristics
- Smooth transition from vapour phase to polymer film
- Well suited for rinsing or immersion after induction heat treatment or flame hardening

QZS 550 and PVM series

- Oil-like quenching characteristics possible
- Very different quenching intensities can be set with the variation of concentration
- Quenching of high-alloy materials up to tool steel possible
- Particularly recommended for large and crack-sensitive components

Cleaner

RENOCLEAN



Product name	Function	Comments	Materials	Corrosion protection, chip/filter test 0/0 at x% in y °dH	pH (2%), if applicable	Concentration range in %	Temperature range in °C	Spray pressure in bar to app.	Density at 15 °C in kg/m³
Neutral Cleaner									
RENOCLEAN MSO 3011	Neutral cleaner for spray and high-pressure cleaning, high-pressure deburring	Highly demulsifying, almost foam-free above 25 °C, salt-free. PSA-approval worldwide: MABEC-code Z 000 546790	Fe, Al, Cu, Ms, Plastics[1]	Temporarily, '2% / in DI-water	9.2 ± 0.4 at 3.5%	3 (1 - 5)	50 (20 - 80)	600	1036 ± 15
	20 L (Canister), 205 L (Drum), 1000 L (IBC)								
RENOCLEAN MTO 3002	Neutral cleaner and corrosion protection "All-in-One" for spray, pressure flood, high pressure cleaning and deburring	Very low residue formation, very good temporary corrosion protection, low-foaming application from 20 °C pressure-dependent, salt-free	Fe, Cu, Ms, (Al, Mg)[1]	Temporarily, '2% / 10 °dH	9.4 ± 0.5	3 (2 - 5)	60 (20 - 80)	500 (≥ 50 °C)	1078 ± 20
	20 L (Canister), 205 L (Drum)								
RENOCLEAN MSO 3012	Medium alkaline cleaner for high pressure cleaning and deburring up to approx. 500 bars	Free of Mono- and Triethanolamine	Fe, Al, Zn, Cu, Ms, Mg[1], Plastics[1]	Temporarily, '2% / in DI water	9.4 ± 0.5	2 (1 - 5)	50 (420 - 80)	500	1027 ± 15
	20 L (Canister), 205 L (Drum)								

Fe – steel, iron, cast iron and stainless steel
1 – to check first

Cleaner

Product name	Function	Comments	Materials	Corrosion protection, chip/filter test 0/0 at x% in y °dH	pH (2%), if applicable	Concentration range in %	Temperature range in °C	Spray pressure in bar to app.	Density at 15 °C in kg/m³
				Neutral Cleaner					
RENOCLEAN MTO 3001	Multi-metal capable neutral cleaner for spray and immersion applications	Suitable for ultrasonic, universal use, e.g. before heat treatment, sprayable from ~ 45 °C, very low residue formation, salt-free	Fe, Al, red brass, (Zn, Cu, Ms, Plastics)[1]	Temporarily, '2% / in DI water	9.5 ± 0.4	2.5 (1 - 7)	60 (30 - 80)	15	1035 ± 15
	20 L (Canister), 205 L (Drum)								
RENOCLEAN MTO 3003	Multi-metal capable neutral cleaner for spray and immersion applications	Developed especially for the removal of micro-quantity lubricants such as: ECOCUT MIKRO PLUS 20. almost foam-free from 30 °C, salt-free.	Fe, Al, Zn, Cu, Ms, Plastics[1]	Temporarily, '2% / in DI water	9.5 ± 0.4	3 (2 - 7)	60 (30 - 80)	300 (500 short-term)	1050 ± 15
	20 L (Canister), 205 L (Drum)								
RENOCLEAN MTO 3004 ***NEW***	Multi-metal capable neutral cleaner with WGK 1 for spray and immersion applications	Suitable for ultrasonic, universal use, e.g. before heat treatment, sprayable from ~ 45 °C, very low residue formation, salt-free	Fe, Al, Red brass, (Zn, Cu, Ms, Plastics)[1]	Temporarily, '2% / in DI water	9.5 ± 0.4	2,5 (2 - 7)	60 (30 - 80)	15	1035 ± 15
	20 L (Canister)								
RENOCLEAN MSO 3004	Neutral cleaner for spray and high-pressure cleaning up to 500 bar	Residue formation very low, suitable for microfiltration, can be used before heat treatment, almost foam-free from 10 °C, salt-free	Fe, Al, Zn, Cu, Ms, Mg[1]	Temporarily, '2% / in DI water	9.8 ± 0.4	2.5 (1 - 5)	60 (10 - 80)	500 (≥ 50 °C)	1038 ± 15
	20 L (Canister), 205 L (Drum)								
RENOCLEAN MSA 3011	Neutral cleaner for spray, pressure flooding, high pressure cleaning and deburring	Foam-free from 20 °C, pressure and temperature dependent PSA approval worldwide: MABEC-code Z 000 533 700	Fe, Al, Cu, Ms, Mg	Temporarily, '2.5 % / 10 °dH	9.8 ± 0.4	3 (1 - 5)	60 (20 - 80)	500 (≥ 50 °C)	1040 ± 15
	20 L (Canister), 205 L (Drum)								

Fe – steel, iron, cast iron and stainless steel
1 – to check first

RENOCLEAN

Product name	Function	Comments	Materials	Corrosion protection, chip/filter test 0/0 at x% in y °dH	pH (2%), if applicable	Concentration range in %	Temperature range in °C	Spray pressure in bar to app.	Density at 15 °C in kg/m³
Neutral Cleaner									
RENOCLEAN VR 1021 CXV	Spray cleaner for spray, pressure flood and high pressure cleaning up to approx. 300 bar	High pressure cleaning (200 bar, 300 for short periods), almost foam-free from 30 °C VW-Approval A29 0976	Fe, Al, Brass, Cu, Mg	Temporarily, '2% / 10 °dH	9.8 ± 0.3	3 (1 - 5)	65 (30 - 80)	200 (300 short-term)	1053 ± 15
	20 L (Canister), 205 L (Drum), 1000 L (IBC)								
RENOCLEAN VR 1021	Neutral cleaner for spray application	Residue formation very low, usable before heat treatment, salt-free	Fe, Mg, (Al, Cu, Ms)[1]	Temporarily, '2% / 10 °dH	10.2 ± 0.3	2 (1 - 5)	65 (30 - 80)	20	1040 ± 15
	20 L (Canister), 205 L (Drum)								
RENOCLEAN C 20 K 1427	Neutral cleaner with very good corrosion protection for ferrous metals, spray application	Low residue formation, usable before heat treatment, salt-free VW-Approval A29 2863	Fe, Mg[1]	Temporarily, '1.5% / 10 °dH	10.2 ± 0.4	2 (1 - 5)	65 (40 - 80)	15	1044 ± 15
	205 L (Drum)								

Cleaner

Product name	Function	Comments	Materials	Corrosion protection, chip/filter test 0/0 at x% in y °dH	pH (2%), if applicable	Concentration range in %	Temperature range in °C	Spray pressure in bar to app.	Density at 15 °C in kg/m³
				1-Component Products					
RENOCLEAN MTA 3003	Multi-metal capable spray and immersion cleaner, suitable for ultrasonic cleaning	Universally applicable, e.g. for non-cutting formed parts or for engine reconditioning	Fe, Al, (Zn, Cu, Ms, Plastics)[1]	Temporarily, '3% / 10 °dH	9.7 ± 0.4 (3%)	3 (2 - 7)	65 (40 - 80)	15	1120 ± 15
	20 L (Canister), 205 L (Drum), 1000 L (IBC)								
RENOCLEAN MSA 3001	Multi-metal capable spray cleaner	Universally applicable, limited suitability for immersion, low-foaming from approx. 40 °C	Fe, Al, Cu, Ms, (Zn, Plastics)[1]	Temporarily, '2.5% / 10 °dH	9.7 ± 0.4 (3%)	3 (2 - 7)	60 (40 - 80)	15	1074 ± 15
	20 L (Canister), 205 L (Drum), 1000 L (IBC)								
RENOCLEAN MDA 4201	Multi-metal capable emulsifying cleaner for immersion, ultrasonic and manual use	Alkaline silicate containing cleaner with very good wetting capacity, supports clean, spotless drying, also suitable for manual and floor cleaning from 20 °C	Fe, Al, Cu, Ms, (Zn, Plastics)[1]	–	10.7 ± 0.5	4 (2 - 7)	65 (20 - 80)	–	1058 ± 20
	20 L (Canister), 205 L (Drum), 1000 L (IBC)								
RENOCLEAN WSA 4002	Cleaner for spray, immersion, ultrasonic and manual application	For heavily soiled parts and aggregates (e.g. railway, engine and chassis parts)	Fe, Al, Cu, Ms, (Zn, Mg, Plastics)[1]	Temporarily, '2.5% / 20 °dH	12.0 ± 0.5 (2.5%)	3 (2 - 7)	60 (30 - 80)	15	1092 ± 15
	20 L (Canister), 205 L (Drum)								
RENOCLEAN FDC 4001	Cleaner for immersion, ultrasonic and manual application in medical technology	Supports stain-free drying. Silicate-free. Non-skin irritating.	Titan, Fe, Al, (Cu, Ms, Mg, Plastics)[1]	–	12.1 ± 0.5	5 (2 - 33)	65 (20 - 80)	–	1090 ± 15
	20 L (Canister)								
RENOCLEAN MDA 4002	Immersion and ultrasonic cleaner, sprayable	For cleaning of parts, e.g.: with difficult to remove forming lubricants. Sprayable up to approx. 8 bar (depending on the equipment)	Fe, Zn, Mg, (Al, Cu, Ms)[1]	Temporarily, '2.5 % / 20 °dH	12.2 ± 0.3	4 (1 - 7)	65 (40 - 80)	8	1145 ± 15
	20 L (Canister)								
RENOCLEAN FSA 4201 ***NEW***	Alkaline spray cleaner for ferrous metals	For cleaning of parts, e.g.: with difficult to remove pigment dirt. WGK 1 and withour H 314	Fe	Temporarily, '3.5 % / 10 °dH	10.5 ± 0.5	3 (1 - 7)	65 (35 - 85)	25	1129 ± 15
	20 L (Canister)								

Fe – steel, iron, cast iron and stainless steel
1 – to check first

RENOCLEAN

Product name	Function	Comments	Materials	Corrosion protection, chip/filter test 0/0 at x% in y °dH	pH (2%), if applicable	Concentration range in %	Temperature range in °C	Spray pressure in bar to app.	Density at 15 °C in kg/m³
1-Component Products									
RENOCLEAN FSA 4017	Alkaline spray cleaner for ferrous metals	For cleaning of parts, e.g.: with difficult to remove pigment dirt. Sprayable up to approx. 25 bar (depending on the plant)	Fe	Temporarily, '2 % / 20 °dH	12.3 ± 0.5	3 (1 - 7)	65 (35 - 85)	25	1168 ± 15
	20 L (Canister), 1000 L (IBC)								
RENOCLEAN VR 2999	Spray and immersion cleaner for ferrous metals, suitable for ultrasonic	For cleaning of parts, e.g.: with difficult to remove pigment dirt (e.g. deep-drawn formed parts)	Fe	Temporarily, '2% / 10 °dH	12.3 ± 0.6	3 (2 - 7)	60 (40 - 80)	10	1175 ± 15
	1000 L (IBC)								
Acid Cleaner									
RENOCLEAN FTM 1001	Derusting, decalcification phosphoric acidic for immersion, ultrasonic and manual application	Suitable for cleaning calcified and germinated cleaning systems. Integrated consumption indicator	Fe, (Al, Mg, Plastics)[1]	Ferrous parts must be metallically bright after treatment and immediately protected with corrosion protection (RENOCLEAN or ANTICORIT product)	1.5 ± 0.5 in DI-water	10 (5 - 50)	30 (20 - 60)	5	1360 ± 15
	20 L (Canister), 205 L (Drum)								
RENOCLEAN FSO 2010	Neutral derusster for spraying, immersion and ultrasonic applications	Chloride free, applicable after thermal or ECM deburring	Fe, Al, (Cu, Ms, Mg, Plastics)[1]	Ferrous parts must be metallically bright after treatment and immediately protected with corrosion protection (RENOCLEAN or ANTICORIT product)	5.9 ± 0.5 at 5%	10 (2 - 30)	50 (20 - 70)	20 (HD 200)	1265 ± 20
	20 L (Canister)								

Cleaner

Product name	Function	Comments	Materials	Corrosion protection, chip/filter test 0/0 at x% in y °dH	pH (2%), if applicable	Concentration range in %	Temperature range in °C	Spray pressure in bar to app.	Density at 15 °C in kg/m³
Builder Components									
RENOCLEAN MTA 2001	Neutral, for immersion, pressure flood, flood and spray application	Borate, silicate and surfactant free, micro-filterable, *	Al, Cu, Ms, Plastics, Zn[1]	–	7.7 ± 0.8	4 (2 - 8)	65 (20 - 80)	Applicable spraying pressure according to the surfactant component used!	1335 ± 25
	20 L (Canister)								
RENOCLEAN MTA 4001	Medium alkaline, for immersion, pressure flood, flood and spray application	Borate, silicate and surfactant free, micro-filterable, *	Fe, Plastics, (Al, Zn, Cu, Ms, Mg)[1]	–	10.0 ± 0.6	4 (2 - 8)	65 (20 - 80)		1579 ± 25
	20 L (Canister), 145 L (Drum)								
RENOCLEAN FTA 4002	Highly alkaline, for dipping, pressure flooding, flooding and spraying	Borate, silicate and surfactant free, micro-filterable, *	Fe, Mg, Plastics[1]	–	12.5 ± 0.5	4 (2 - 8)	65 (20 - 80)		1435 ± 20
	20 L (Canister), 700 L (IBC)								
RENOCLEAN ENTFETTER 39	Highly alkaline, silicate, for dipping, pressure flooding, flooding and spraying	Borate-free	Fe, Mg, Al, Cu, brass, plastic, Zn[1]	–	12.5 ± 0.5	5 (1 - 20)	65 (20 - 80)		1370 ± 15
	700 L (IBC)								
RENOCLEAN FTA 4001	Highly alkaline, for immersion, pressure flooding, ultrasonic and spray cleaning, electrolytic degreasing, dephosphating	Borate-free, micro-filterable, *	Fe, Mg, (Cu, Ms, Plastics)[1]	–	12.9 ± 0.6 (1 %)	5 (2 - 20)	65 (20 - 85)		1433 ± 25
	20 L (Canister), 170 L (Drum), 700 L (IBC)								
RENOCLEAN VR 3222	With corrosion protection, recyclable, for immersion, pressure flood, flood and spray application	Free of nitrite, borate, silicate and surfactants, micro-filterable, suitable for high pressure, free of salt,*	All materials[1]	Temporarily, '3.5% / 10 °dH	8.0 ± 0.4 (3.5%)	2 (0.5 - 5)	60 (20 - 80)		1079 ± 15
	20 L (Canister), 205 L (Drum)								
RENOCLEAN VR 2729 K	With corrosion protection, recyclable, salt-free, for immersion, pressure flood, flood and spray application	Free of nitrite, borate, silicate and surfactants, micro-filterable, *. Has a corrosion-protecting effect in the vapour phase. Salt-free.	Fe, Mg, Plastics[1]	Temporarily, '3% / 10 °dH	10.8 ± 0.5 (3 %)	2 (0.5 - 5)	60 (20 - 80)		1035 ± 15
	20 L (Canister), 205 L (Drum), 1000 L (IBC)								

Fe – steel, iron, cast iron and stainless steel
1 – to check first
* – Observe product information - use with appropriate surfactant components

RENOCLEAN

Product name	Function	Comments	Materials	Corrosion protection, chip/filter test 0/0 at x% in y °dH	pH (2%), if applicable	Concentration range in %	Temperature range in °C	Spray pressure in bar to app.	Density at 15 °C in kg/m³
Surfactant Components									
RENOCLEAN VR 1500	Cleaning booster for spray cleaning, neutral cleaner	As a neutral cleaner free from corrosion protection components	All materials[1]	–	8.5 ± 0.5	1 (0.3 - 5)	65 (30 - 80)	25	1047 ± 15
	20 L (Canister), 205 L (Drum), 1000 L (IBC)								
RENOCLEAN MTT 2003	Cleaning booster for immersion, pressure flood, ultrasonic and spray cleaning	Micro-filterable, strongly dependent on membrane and working parameters! Spraying at least 40 °C	All materials[1]	–	7.9 ± 1.2 (1%)	1 (0.4 - 5)	65 (20 - 80)	15 (25 above 65 °C)	1020 ± 20
	20 L (Canister)								
RENOCLEAN TENSID 161	Cleaning booster for immersion, ultrasonic and pressure flood cleaning	Micro-filterable, strongly dependent on membrane and working parameters! *	All materials[1]	–	9.1 ± 0.6	0.4 (0.1 - 1)	65 (20 - 80)	2 (above 60 °C)	1025 ± 20
	20 L (Canister), 205 L (Drum)								

Product name	Function	Comments	Materials	Corrosion protection, chip/filter test 0/0 at x% in y °dH	pH (2%), if applicable	Concentration range in %	Density at 15 °C in kg/m³
System Cleaner							
GROTANOL FF 1 N	System cleaner for coolant supply systems, registered in most European countries!	Contact time 6 - 24h	According to coolant	–	app. 9 ± 1 at 1%	2 (1 - 3)	1010 ± 15
	10 L (Canister), 205 L (Drum)						
RENOCLEAN FXM 4005	System cleaner biocide- and fungicide-free, for coolant supply systems, basic system without biocide / fungicide	Contact time 8 - 24h Separate dosing of bactericide. Permanent use in coolant lubricants without bactericide possible	According to coolant	–	10.0 ± 0.6	1.5 (1 - 2)	1005 ± 15
	20 L (Canister), 205 L (Drum), 1000 L (IBC)						
ACTICIDE MBS / WB 200	Biocides and fungicides for system cleaning, in combination with RENOCLEAN FXM 4005 for targeted application	See "Service additives for cutting fluids" under "Cutting fluids - water-miscible"	According to contamination / infestation	–	–	–	–
	20 L (Canister)						

Cleaner

Product name	Function	Comments	Materials	Evaporation number approx. Ether = 1	Flash point in °C	Boiling range in °C	Density at 15 °C in kg/m³
			Solvents				
RENOCLEAN MVS 6201 **NEW** (Spray can: RENOCLEAN MVS SPRAY)	Rapid metal cleaner	Fast-acting cleaner with strong cleaning power for metal surfaces. Product is also available as RENOCLEAN MVS SPRAY.	All materials, plastics[1]	–	-18	–	777 ± 10
	12 x 400 ml (Spraying Can), 5 L (Canister), 25 L (Canister), 205 L (Drum)						
RENOCLEAN MTS 7001	Cleaner based on modified alcohols	Distillable. Especially designed for closed cleaning systems!	All materials, plastics[1]	125	≥ 61	165 - 175	880 ± 10
	205 L (Drum)						
RENOCLEAN MTS 9001 **NEW**	Cleaner based on modified alcohols	Non-labeled	All materials, plastics[1]	> 1200	≥ 100	–	958 ± 10
	20 L (Canister)						
RENOCLEAN MVS 8015	Hydrocarbon cleaner based on isoparaffin, aromatic-free	Narrow boiling cut, fast drying, distillable. Especially designed for closed cleaning systems!	All materials, plastics[1]	93	≥ 56	179 - 197	760 ± 10
	205 L (Drum)						
RENOCLEAN MVS 8019	Hydrocarbon cleaner based on isoparaffin, aromatic-free	Narrow boiling cut, fast drying, distillable. Especially designed for closed cleaning systems!	All materials, plastics[1]	115	≥ 62	184 - 206	763 ± 10
	205 L (Drum)						
RENOCLEAN MVS 9004	VOC-compliant, aromatics-free hydrocarbon cleaner	Universal application, slowly evaporating. Simple application, e.g. for the removal of car wax preservative. VW-Approval A29 2819	All materials, plastics[1]	900	≥ 86	217 - 255	815 ± 20
	20 L (Canister), 205 L (Drum), 1000 L (IBC)						
RENOCLEAN MVS 9014	VOC- and aromatic-free hydrocarbon cleaner with corrosion protection	VOC compliant. Universal application, good corrosion protection due to very thin oil film. For solvent plants without distillation	All materials, plastics[1]	900	≥ 86	217 - 255	814 ± 20
	1000 L (IBC)						
RENOCLEAN MVS 8202 Advanced Circular Technologies	Sustainable hydrocarbon cleaner, isoparaffin-based, suitable for multi-metals	Completely bio-based on a mixture of palm oil, rapeseed oil, sunflower oil or used cooking oil.	All materials, plastics[1]	~130	≥ 60	180 - 218	752 ± 15
	205 L (Drum)						
RENOCLEAN MVS 8201	Low-aromatic hydrocarbon cleaner, environmentally friendly, demulsifying	Universal application in industry and trade, applicable with steam jet, good corrosion protection properties. Free of corrosive and caustic substances	All materials, plastics[1]	120	≥ 61	180 - 330	770 ± 20
	60 L (Drum)						

RENOCLEAN

Product name	Function	Comments	Materials	Evaporation number approx. Ether = 1	Flash point in °C	Boiling range in °C	Density at 15 °C in kg/m³
Solvents							
RENOCLEAN MVS 8010	Hydrocarbon cleaner based on isoparaffin, aromatic-free	Gentle cleaning, for precision mechanics and electronic parts cleaning, not irritating to skin. Easy application, for solvent plants without permanent distillation	All materials, plastics[1]	130	≥ 61	185 - 210	765 ± 10
	20 L (Canister), 60 L (Drum), 205 L (Drum), 1000 L (IBC)						
RENOCLEAN MVS 7008	Hydrocarbon cleaner, aromatics-free	Fine cleaning, fast drying. Easy application, for solvent plants without permanent distillation	All materials, plastics[1]	200	≥ 61	160 – 245	790 ± 25
	60 L (Drum), 205 L (Drum), 1000 L (IBC)						
RENOCLEAN ECO AIR	Washing oil for air purification devices (ex RENOCLEAN MVS 9005 / PENTOWASH 30!)	Washing oil for air cleaning systems in aluminium rolling mills, distillable, recyclable	All materials, plastics[1]	–	≥ 220	–	837 ± 20
	20 L (Canister), 205 L (Drum), 1000 L (IBC), Tank Truck						

Fe – steel, iron, cast iron and stainless steel
1 – to check first

Cleaner

Product name	Function	Comments	Materials	Corrosion protection, chip/filter test 0/0 at x% in y °dH	pH (2%), if applicable	Concentration range in %	Temperature range in °C	Spray pressure in bar to app.	Density at 15 °C in kg/m³
Special Products									
RENOCLEAN FXM 3014	Synthetic weld release agent with corrosion protection	Ready to use solution! Forms a coherent moist film that prevents the adhesion of welding beads	–	Temporarily, '100%	8.7 ± 0.5 (100%)	100	Room temperature (15 - 30)	–	1010 ± 15
	20 L (Canister)								
RENOCLEAN GXM 3001	Defoamer, foam regulating additive especially for cleaning solutions	Immediate, long-lasting defoaming and deaerating effect	–	–	8.8 ± 1.2 (100%)	0.05 (0.01 - 0.25)	–	–	998 ± 15
	5 L (Canister)								
RENOCLEAN GXA 3004	Floor, plant and hall cleaners	For all manual and mechanical applications, odourless, especially suitable for floor cleaning equipment	All materials[1]	–	9.1 ± 0.6 (100%)	3 (1 - 20)	20 (20 - 90)	–	1047 ± 15
	20 L (Canister), 1000 L (IBC)								
RENOCLEAN AKTIV DA	Demulsifier for separating emulsified oil	Demulsifier with defoaming effect, equipment for removing demulsified oil is necessary (oil separator etc.)	–	–	9.3 ± 0.7 (100%)	0.2 (0.05 - 1.0)	–	–	987 ± 10
	20 L (Canister)								
RENOCLEAN SPEZIAL 2000	Emulsifying universal cleaner for immersion, ultrasonic and manual cleaning of commercial vehicles, tarpaulins, halls and workshops	For all manual cleaning, for immersion, suitable for steam jet and floor cleaning equipment. Specifications - FORD Tox-Number 150602 (2014) - Federal-Mogul Nürnberg GmbH, Release number R041 (2014)	Fe, Mg, (Al, Cu, Ms, Lacke, Plastics)[1]	–	10.9 ± 0.4 at 3%	5 (1 - 20)	35 (20 - 80)	–	1045 ± 20
	5 L (Canister), 20 L (Canister), 205 L (Drum), 1000 L (IBC)								
RENOCLEAN GXA 4014	Universal cleaner for floors, halls and vehicle fleet	For mechanical and manual cleaning of workshop, vehicle fleet, etc. Contains lime scent	Fe, Mg, (Al, Cu, Ms, Lacke, Plastics)[1]	–	11.7 ± 0.5 (1%)	3 (1 - 20)	20 (20 - 80)	–	1036 ± 15
	20 L (Canister)								

Fe – steel, iron, cast iron and stainless steel
1 – to check first

RENOCLEAN

Product name	Function	Comments	Materials	Flash point in °C	pH (2%), if applicable	Concentration range in %	Temperature range in °C	Spray pressure in bar to app.	Density at 15 °C in kg/m³
Assembly Aids									
RENOCLEAN GXS 9055	Assembly aids, ready for use, synthetic (ex PENTOSIN MONTAGE-FLUID 55)	Aid for the assembly of various components. Compatible with all common lubricants and corrosion protection agents based on mineral, HC synthetic or synthetic oil as well as fuels	–	≥ 150	–	100	Room temperature (15 - 30)	–	897 ± 10
	20 L (Canister)								
RENOCLEAN GXS 9067	Assembly aid, ready for use, UV additive (ex PENTOSIN MONTAGE-FLUID 67UVA)	Aids for assembly and short-term transport of brake units and their components. Compatible with all common brake fluids, contains UV indicator.	–	≥ 200	–	100	Room temperature (15 - 30)	–	992 ± 10
	60 L (Drum)								
RENOCLEAN GXS 9094	Assembly aid, containing corrosion protection, synthetic (ex PENTOSIN MONTAGE-FLUID 94)	Aids for assembly and short-term transport of brake components and brake systems. Compatible with all common brake fluids	–	≥ 210	–	100	Room temperature (15 - 30)	–	995 ± 10
	205 L (Drum)								

Cleaner

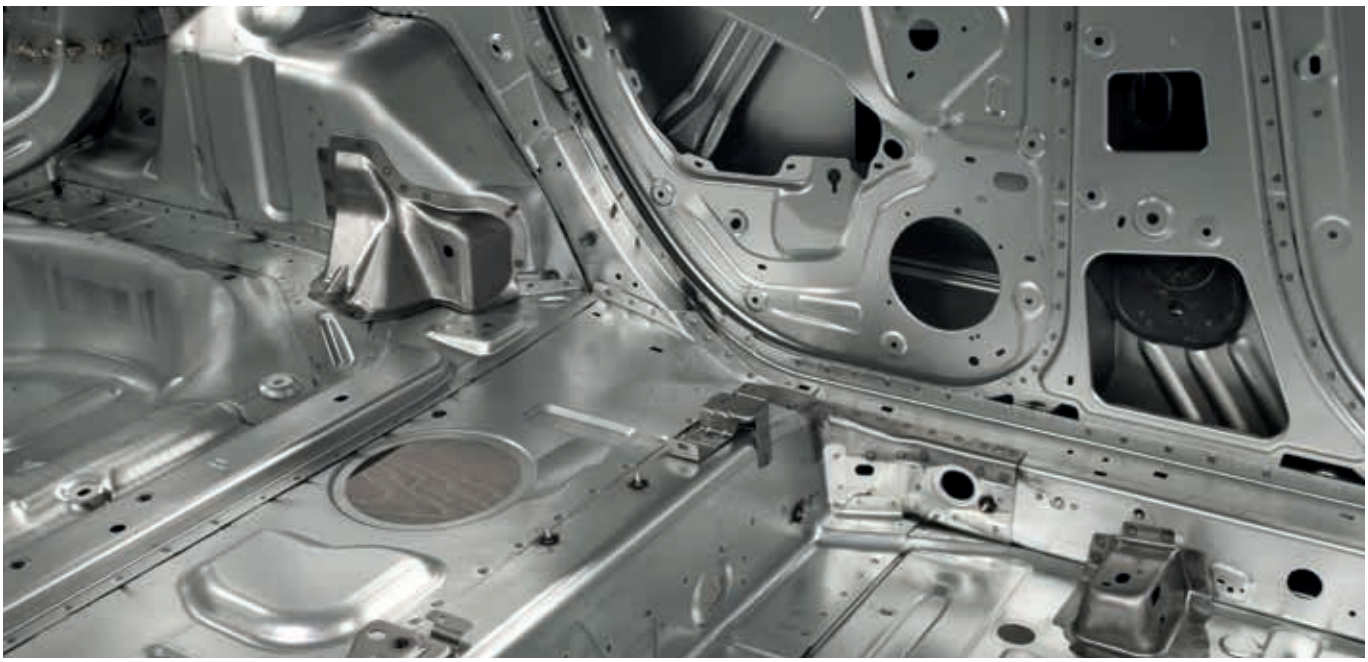
Product name	Function	Comments	Materials	Corrosion protection, chip/filter test 0/0 at x% in y °dH	pH (2%), if applicable	Concentration range in %	Temperature range in °C	Spray pressure in bar to app.	Density at 15 °C in kg/m³
Corrosion Protection									
RENOCLEAN VR 3222	Synthetic, mineral oil-free corrosion protection	Nitrite- and borate free, suitable for vibratory grinding. For dipping, flooding, pressure flooding and spray application.	All materials[1]	Temporarily, '3.5% / 10 °dH	8.0 ± 0.4 (3.5%)	2 (0.5 - 5)	60 (20 - 80)	100	1079 ± 15
	20 L (Canister), 205 L (Drum)								
RENOCLEAN MTO 3002	Corrosion protection and neutral cleaner "All-in-One" for spray, pressure flood and high pressure application	Very low residue formation, very good temporary corrosion protection, low-foaming application from 20 °C, pressure dependent	All materials[1]	Temporarily, '2% / 10 °dH	9.4 ± 0.4	3 (2 - 5)	60 (20 - 80)	500 at 50 °C	1090 ± 15
	20 L (Canister), 205 L (Drum)								
ANTICORIT SKR 40	Synthetic hydraulic water and corrosion protection concentrate	Immersion and filling application, especially for press water applications. Not approved for drinking water!	Fe	Temporarily, '4% / 20 °dH	9.4 ± 0.3 (10%)	7 (3 - 10)	20 (10 - 40)	10	1038 ± 15
	205 L (Drum)								
ANTICORIT SKR 42	Synthetic hydraulic water and corrosion protection concentrate	Stable against salt and alkali entrainment, for immersion and filling applications	Fe	Temporarily, '1.5% / 20 °dH	9.8 ± 1	3 (1 - 5)	20 (10 - 50)	10	1068 ± 15
	20 L (Canister), 205 L (Drum)								
ANTICORIT SKR 3001	Synthetic, mineral oil-free corrosion protection	Free of nitrite and borate, protects in the vapour phase against corrosion, suitable for vibratory grinding, for immersion, pressure flood, flood and spray applications	All materials[1]	Temporarily, '2% / 20 °dH	9.8 ± 0.4	3 (0.5 - 5)	60 (10 - 80)	2	1033 ± 15
	20 L (Canister), 205 L (Drum)								
RENOCLEAN VR 2729 K	Synthetic, mineral oil-free corrosion protection	Free of nitrite and borate, protects in the vapour phase against corrosion, suitable for vibratory grinding, for immersion, pressure flood, flood and spray applications	Fe	Temporarily, '1.5% / VE	10.8 ± 0.5 (3%)	2 (0.5 - 5)	60 (20 - 80)	300	1035 ± 15
	20 L (Canister), 205 L (Drum), 1000 L (IBC)								

Fe – steel, iron, cast iron and stainless steel
1 – to check first

RENOCLEAN

Product name	Function	Comments	Materials	Corrosion protection, chip/filter test 0/0 at x% in y °dH	pH (2%), if applicable	Concentration range in %	Temperature range in °C	Spray pressure in bar to app.	Density at 15 °C in kg/m³
Corrosion Protection									
RENOCLEAN MTE 3001	Emulsion cleaner, water miscible corrosion protection concentrate	Emulsion cleaner and corrosion protection emulsion for immersion, flush and spray application. Free of barium and boron compounds, contains no monoethanolamine	All materials[1]	Temporarily, '3% / 10 °dH	8.8 ± 0.5	4 (3 - 20)	20 (20 - 60)	5	995 ± 20
	205 L (Drum)								

Corrosion Preventives



Product name	Description	Kin. visc. at 40 °C [mm²/s] DIN 51562	Density at 15 °C [KG/m³]	Consumption [l/m²]	Film weight [g/m²]	Shed storage [Mon.]	Hall storage [Mon.]	FP [°C]	Thixotropic	VCI	Lubricating properties
				Corrosion Protection Oils							
ANTICORIT RPO 1001	Conventional corrosion protection oil with low viscosity	8	839	0.002	2	2-4	4-8	146	–	–	–
	205 L (Drum)										
ANTICORIT RPO 2001	Conventional corrosion protection oil with medium viscosity	15	839	0.005	4	2-4	4-8	194	–	–	–
	205 L (Drum)										
ANTICORIT RPO 2002	Conventional corrosion protection oil with medium viscosity; improved corrosion protection	15	846	0.005	4	3-5	5-8	190	–	–	–
	20 L (Canister), 205 L (Drum)										
ANTICORIT RPO 3002	Conventional corrosion protection oil with high viscosity; improved corrosion protection	30	851	0.011	9	3-6	6-8	226	–	–	–
	20 L (Canister), 205 L (Drum)										
ANTICORIT RPO 3003	Conventional corrosion protection oil with high viscosity	30	871	0.010	9	3-5	5-8	226	–	–	–
	205 L (Drum)										

Check compatibility with critical alloys; • = Yes; – = No

ANTICORIT

Product name	Description	Kin. visc. at 40 °C [mm²/s] DIN 51562	Density at 15 °C [KG/m³]	Consumption [l/m²]	Film weight [g/m²]	Shed storage [Mon.]	Hall storage [Mon.]	FP [°C]	Thixotropic	VCI	Lubricating properties
Corrosion Protection Oils											
ANTICORIT BGI 15	Corrosion protection oil with VCI; medium viscosity	14	865	0.006	5	3-6	9-15	155	–	•	•
	205 L (Drum), 1000 L (IBC)										
ANTICORIT BGI 21	Corrosion protection oil with VCI	22	902	0.006	6	3-6	9-15	150	–	•	•
	205 L (Drum), 1000 L (IBC), Tank Truck										
ANTICORIT LBO 160 TT	Corrosion protection oil with very high viscosity, suitable for use in low temperature applications	160	920	0.038	35	3-6	6-9	150	–	–	•
	205 L (Drum)										
ANTICORIT RPS 30 N	Corrosion protection oil with good environmental and work safety properties, designed for mill application	23	840	0.011	9	3-6	6-9	230	–	–	–
	1000 L (IBC), Tank Truck										
ANTICORIT RP 30 NT	Corrosion protection oil designed for steel mill application	30	889	0.010	9	3-6	6-9	172	–	–	–
	Tank Truck										
ANTICORIT RP 4107 A	Mid-viscous, non thixotropic modification of ANTICORIT RP 4107 S	15	870	0.010	9	3-6	6-9	130	–	–	–
	20 L (Canister), 205 L (Drum), 1000 L (IBC), Tank Truck										
ANTICORIT PL 3802 39 LV 8	Low-viscous blank washing oil with advanced lubrication, non thixotropic	8	890	0.002	2	3-6	6-9	110	–	–	•
	205 L (Drum), 1000 L (IBC)										
ANTICORIT PL 3802 39 NT	Non thixotropic modification of ANTICORIT PL 3802 39 S	26	880	0.009	8	3-6	6-9	n/a	–	–	•
	205 L (Drum)										
ANTICORIT PL 39 LV 8	Low-viscous blank washing oil	8	880	0.002	2	3-6	6-9	116	–	–	•
	205 L (Drum), 1000 L (IBC), Tank Truck										
ANTICORIT PL 39 LV 18	Mid-viscous blank washing oil	17	900	0.008	7	3-6	6-9	158	–	–	•
	205 L (Drum)										

Corrosion Preventives

Product name	Description	Kin. visc. at 40 °C [mm²/s] DIN 51562	Density at 15 °C [KG/m³]	Consumption [l/m²]	Film weight [g/m²]	Shed storage [Mon.]	Hall storage [Mon.]	FP [°C]	Thixotropic	VCI	Lubricating properties
Oily Corrosion Preventative Concentrates											
ANTICORIT RPC 5000	Corrosion protection concentrate, successor of ANTICORIT OHK	85	887	Depends on conc.	Depends on conc.	Depends on conc.	Depends on conc.	248	–	–	–
	20 L (Canister), 205 L (Drum), 1000 L (IBC)										
ANTICORIT MPC 5000	Corrosion protection concentrate, advanced corrosion protection and lubrication performance, compatible with chlorinated solvents	90	890	Depends on conc.	Depends on conc.	Depends on conc.	Depends on conc.	240	–	–	–
	20 L (Canister), 205 L (Drum), 1000 L (IBC), Tank Truck										
ANTICORIT 03 W C	High-viscous, thixotropic corrosion protection concentrate; suitable for bearings	160	912	Depends on conc.	Depends on conc.	Depends on conc.	Depends on conc.	150	•	–	–
	20 L (Canister), 205 L (Drum)										

Check compatibility with critical alloys; • = Yes; – = No

ANTICORIT

Product name	Description	Kin. visc. at 40 °C [mm²/s] DIN 51562	Density at 15 °C [KG/m³]	Consumption [l/m²]	Film weight [g/m²]	Shed storage [Mon.]	Hall storage [Mon.]	FP [°C]	Thixotropic	VCI	Optimized lubricating properties
Thixotropic Corrosion Protection Oils											
ANTICORIT BGO 15 X-FF	Thixotropic corrosion protection oil with very good corrosion protection and lubrication properties, suitable for bearings	14	860	0.006	5	12-24	12-36	130	•	–	•
	205 L (Drum), 1000 L (IBC)										
ANTICORIT RPX 3901 *NEW*	Thixotropic corrosion protection oil with very good corrosion protection and lubrication properties; suitable for large sized bearings	90 at 50 °C	865	0.035	30	12-24	12-36	200	•	–	•
	205 L (Drum)										
ANTICORIT TX 11	Thixotropic corrosion protection oil with very good lubrication properties; suitable for bearings	40	883	0.034	30 at 60 °C	6-12	12-24	160	•	–	•
	205 L (Drum)										
ANTICORIT TW 16	High-viscous corrosion protection oil for hot applications	32 at 50 °C	883	0.012	11 at 85 °C	6-12	12-24	170	•	–	–
	205 L (Drum), Tank Truck										
ANTICORIT RP 4107 S	Thixotropic corrosion protection oil for still mill application on body-in-white strips, meets VDA 230-213	35	887	0.012	11	6-12	12-20	210	•	–	–
	205 L (Drum), 1000 L (IBC), Tank Truck										
ANTICORIT RP 4107 LV	Low-viscous modification of ANTICORIT RP 4107 S, meets VDA 230-213	12	865	0.002	2	4-8	8-16	150	•	–	–
	20 L (Canister), 205 L (Drum), 1000 L (IBC)										
ANTICORIT PL 3802 39 S	First generation thixotropic prelube, meets VDA 230-213	60	910	0.012	11	6-12	12-20	180	•	–	•
	205 L (Drum), 1000 L (IBC), Tank Truck										
ANTICORIT PLS 100 T	Second generation thixotropic prelube, meets VDA 230-213	100	910	0.012	11	6-12	12-20	180	•	–	–
	205 L (Drum), 1000 L (IBC)										

Corrosion Preventives

Product name	Description	Kin. visc. at 40 °C [mm²/s] DIN 51562	Density at 15 °C [KG/m³]	Consumption [l/m²]	Film weight [g/m²]	Shed storage [Mon.]	Hall storage [Mon.]	FP [°C]	Thixotropic	VCI	Optimized lubricating properties
Thixotropic Corrosion Protection Oils											
ANTICORIT PL 3802 39 LV	Low-viscous modification of ANTICORIT PL 3802 39 S, suitable as blank washing oil, meets VDA 230-213	15	891	0.007	6	4-8	8-16	150	•	–	–
	205 L (Drum), 1000 L (IBC)										
ANTICORIT PL 39 SX	Hotmelt for mill application, meets VDA 230-213	20 at 60 °C	895	0.001	1	6-12	12-20	175	•	–	•
	205 L (Drum)										
Mineral Oil-free Corrosion Protection Products											
ANTICORIT EB 1	Ester based corrosion protection oil for mill application, suitable for embalage sheets	17	951	–	0.3	–	1-3	175	–	–	•
	205 L (Drum)										
ANTICORIT BML 3	Corrosion protection based on polyglycol, suitable for brake components	35	985	–	–	1-3	3-6	200	–	–	–
	20 L (Canister), 205 L (Drum), 1000 L (IBC)										
ANTICORIT SYNTH	Fully synthetic, high viscous multipurpose oil, good lubrication properties	102	834	–	–	3-6	6-12	150	–	–	•
	20 L (Canister)										
Solvent based Corrosion Protection Products											
ANTICORIT 04 W 2	Pre-diluted corrosion protection oil, 75% evaporation residue, isoparaffin, suitable for bearings	32 at 20 °C	906	Depends on conc.	Depends on conc.	6-12	12-20	>60	–	–	–
	205 L (Drum)										
ANTICORIT 04 W 2 VOC kon.	Pre-diluted corrosion protection oil, 75% evaporation residue, VOC-free according to 31. BImSchV, suitable for bearings	47 at 20 °C	920	Depends on conc.	Depends on conc.	6-12	12-20	>90	–	–	–
	205 L (Drum)										

Check compatibility with critical alloys; • = Yes; – = No

ANTICORIT

Product name	Description	Kin. visc. at 40 °C [mm²/s] DIN 51562	Density at 15 °C [KG/m³]	Con-sump-tion [l/m²]	Film weight [g/m²]	Shed stor-age [Mon.]	Hall stor-age [Mon.]	FP [°C]	Thix-otro-pic	VCI	Opti-mized lubri-cating proper-ties
Water Displacing Corrosion Protection Products											
ANTICORIT DFO 6101	Dewatering fluid, leaving a thin, oily protection layer	1.8 at 20 °C	795	0.010	0.8	3-6	6-12	>40	–	–	–
	205 L (Drum)										
ANTICORIT DFO 6301	Dewatering fluid, leaving a thick, oily protection layer	2.6 at 20 °C	821	0.010	2	6-12	12-24	>40	–	–	–
	20 L (Canister), 205 L (Drum)										
ANTICORIT DFO 8101	Dewatering fluid, leaving a thin, oily protection layer, iso-paraffin	2.4 at 20 °C	780	0.013	1	3-6	6-12	>60	–	–	–
	20 L (Canister), 205 L (Drum)										
ANTICORIT DFO 8301	Dewatering fluid, leaving a thick, oily protection layer, iso-paraffin	4 at 20 °C	800	0.013	2.5	6-12	12-24	>60	–	–	–
	20 L (Canister), 205 L (Drum), 1000 L (IBC)										
ANTICORIT DFO 9101	Dewatering fluid, leaving a thin, oily protection layer, VOC-free acc. to 31. BImSchV	4.4 at 20 °C	820	0.012	1	3-6	6-12	>90	–	–	–
	20 L (Canister), 205 L (Drum), 1000 L (IBC)										
ANTICORIT DFO 9301	Dewatering fluid, leaving a thick, oily protection layer, VOC-free acc. to 31. BImSchV	7.2 at 20 °C	835	0.012	2.5	6-12	12-24	>90	–	–	–
	20 L (Canister), 205 L (Drum), 1000 L (IBC)										
ANTICORIT DFO 9401 *NEW* Advanced Circular Technologies	Dewatering fluid, leaving a thick, oily protection layer, VOC free according to 31. BImSchV, no H304	10.9	865	0.012	2.5	6-12	12-24	>90	–	–	–
	20 L (Canister), 205 L (Drum)										
ANTICORIT DFW 6101	Dewatering fluid, leaving a thin, waxy protection layer	1.6 at 20 °C	795	0.013	1	3-6	6-12	>40	•	–	–
	20 L (Canister), 205 L (Drum), 1000 L (IBC)										
ANTICORIT DFW 6301	Dewatering fluid, leaving a thick, soft waxy protection layer	3.7 at 20 °C	813	0.010	2	6-12	12-24	>40	•	–	–
	20 L (Canister), 205 L (Drum)										

Corrosion Preventives

Product name	Description	Kin. visc. at 40 °C [mm²/s] DIN 51562	Density at 15 °C [KG/m³]	Consumption [l/m²]	Film weight [g/m²]	Shed storage [Mon.]	Hall storage [Mon.]	FP [°C]	Thixotropic	VCI	Optimized lubricating properties
Water Displacing Corrosion Protection Products											
ANTICORIT DFW 8101	Dewatering fluid, leaving a thin, waxy protection layer, isoparaffin	3.5 at 20 °C	780	0.013	1	3-6	6-12	>60	•	–	–
	20 L (Canister), 205 L (Drum), 1000 L (IBC)										
ANTICORIT DFW 8301	Dewatering fluid, leaving a thick, soft waxy protection layer, isoparaffin	3.7 at 20 °C	800	0.013	2.5	6-12	12-24	>60	•	–	–
	20 L (Canister), 205 L (Drum), 1000 L (IBC)										
ANTICORIT DFW 9101	Dewatering fluid, leaving a thin, waxy protection layer, VOC-free acc. to 31. BImSchV	4.2 at 20 °C	820	0.012	1	3-6	6-12	>90	•	–	–
	20 L (Canister), 205 L (Drum), 1000 L (IBC)										
ANTICORIT DFW 9301	Dewatering fluid, leaving a thick, soft waxy protection layer, VOC-free according to 31. BImSchV	6.7 at 20 °C	835	0.012	2.5	6-12	12-24	>90	•	–	–
	20 L (Canister), 205 L (Drum), 1000 L (IBC)										
ANTICORIT DFW 9201	Dewatering fluid, leaving a thick, soft waxy protection layer, VOC free according to 31. BImSchV	5.5 at 20 °C	830	0.012	1.8	6-9	12-18	>90	•	–	–
	1000 L (IBC)										
ANTICORIT DFO 8191 *NEW* Advanced Circular Technologies	Sustainable dewatering fluid, leaving a thin, oily protection layer	3 at 20 °C	780	0.013	1	3-6	6-12	>60	–	–	–
	20 L (Canister)										

ANTICORIT

Product name	Description	Kin. visc. at 40 °C [mm²/s] DIN 51562	Density at 15 °C [KG/m³]	Consumption [l/m²]	Film weight [g/m²]	Shed storage [Mon.]	Hall storage [Mon.]	FP [°C]	Thixotropic	VCI	Optimized lubricating properties
Water-miscible, Oily Corrosion Protection Products											
ANTICORIT WMC 7000	Emulsifiable corrosion protection oil with good corrosion protection	60	922	Depends on conc.	Depends on conc.	Depends on conc.	Depends on conc.	>175	–	–	–
	20 L (Canister), 205 L (Drum), 1000 L (IBC)										
ANTICORIT WMC 9000	Emulsifiable corrosion protection oil with high corrosion protection	100	942	Depends on conc.	Depends on conc.	Depends on conc.	Depends on conc.	>175	–	–	–
	20 L (Canister), 205 L (Drum), 1000 L (IBC)										
ANTICORIT WMC 9002	Emulsifiable oil with high corrosion protection on steel and zinc, supports forming processes	100	910	Depends on conc.	Depends on conc.	Depends on conc.	Depends on conc.	>150	–	–	–
	20 L (Canister)										
ANTICORIT WMD 9200 NEW Advanced Circular Technologies	Emulsion with outstanding corrosion protection like a dewatering. VOC-free, fast drying	50	980	0.04	2	3-6	6-12	>150	–	–	–
	20 L (Canister), 205 L (Drum)										
ANTICORIT MKR 10	Emulsifiable corrosion protection oil with high corrosion protection and thixotropic characteristics	128	931	Depends on conc.	Depends on conc.	Depends on conc.	Depends on conc.	>150	•	–	–
	205 L (Drum), 1000 L (IBC)										
Water-miscible, Synthetic Corrosion Protection Product											
ANTICORIT SKR 3001	Mineral oil-free (synthetic) corrosion protection concentrate	–	1030	Depends on conc.	Depends on conc.	–	<1	–	–	•	–
	20 L (Canister), 205 L (Drum)										

Check compatibility with critical alloys; • = Yes; – = No

Corrosion Preventives

Product name	Description	Kin. visc. at 40 °C [mm²/s] DIN 51562	Density at 15 °C [KG/m³]	Con-sump-tion [l/m²]	Film weight [g/m²]	Shed storage [Mon.]	Hall stor-age [Mon.]	FP [°C]	Thix-otro-pic	VCI	Opti-mized lubri-cating proper-ties
Corrosion Protection Coatings											
ANTICORIT BW 366	Solvent containing corrosion protection wax, leaves a brownish touch dry film with very high corrosion protection properties	FT - 4mm nozzle = 60s	885	0.311	50	12-36	12-36	>60	•	–	–
	8 kg (Pail), 20 L (Canister), 205 L (Drum)										
ANTICORIT HKW 6501	Solvent-based, high performance corrosion protection wax; excellent multi-metal adhesion	FT - 4mm nozzle = 30s	920	0.272	50	12-36	12-36	>40	•	–	–
	205 L (Drum)										
ANTICORIT CPX 3373	Solvent-free, high performance corrosion protection coating with thixotropy; curing oxidatively	dyn. visc. at 300 1/s = 350 mPas	1050	0.048	75	>36	>36	>135	•	–	–
	1 L (Metal Can), 20 L (Canister), 205 L (Drum), 1000 L (IBC)										
ANTICORIT CPX 3373 VW LV	Solvent-free, high performance corrosion protection coating with lower thixotropy; curing oxidatively	dyn. visc. at 300 1/s = 170 mPas	1050	0.048	30	>24	>24	>220	•	–	–
	29 kg (Hobbock), 205 L (Drum)										
ANTICORIT CPX 3230	Solvent-free, high performance corrosion protection coating with very high thixotropy; curing oxidatively; suitable for underbody application	dyn. visc. at 300 1/s = 2000 mPas	1080	0.139	150	>36	>36	>130	•	–	–
	205 L (Drum)										
ANTICORIT 350	Solvent-based, high performance corrosion protection wax, excellent multi-metal adhesion	FT - 4mm nozzle = 20s	920	–	30	12-36	12-36	–	–	–	–
	5 L (Can), 25 L (Canister)										
ANTICORIT CPX 3320	Solvent-free, high performance corrosion protection coating with thixotropy; curing oxidatively; low odour	dyn. visc. at 300 1/s = 250 mPas	1090	0.046	50	>36	>36	>130	•	–	–
	29 kg (Hobbock), 205 L (Drum)										

ANTICORIT

Product name	Description	Kin. visc. at 40 °C [mm²/s] DIN 51562	Density at 15 °C [KG/m³]	Consumption [l/m²]	Film weight [g/m²]	Shed storage [Mon.]	Hall storage [Mon.]	FP [°C]	Thixotropic	VCI	Optimized lubricating properties
Corrosion Protection Coatings											
ANTICORIT CPX 3330 *NEW*	Solvent-free, high performance corrosion protection coating with very high thixotropy; oxidative curing; suitable for battery applications. Heat for application	dyn. visc. at 300 1/s = 2500 mPas	1080	0.139	150	>36	>36	>130	•	–	–
	11 kg (Bucket)										
Maintenance Fluids for Dewatering Products											
ANTICORIT DF 9000	Water displacement, leaving no residues, D90 solvent, VOC-free according to 31. BImSchV	2.8 at 20 °C	810	–	–	–	–	>90	–	–	–
	205 L (Drum), 1000 L (IBC)										
ANTICORIT DFC 1001	Additive to enhance water displacement properties	6.2 at 20 °C	953 at 20 °C	–	–	–	–	>105	–	–	–
	20 L (Canister), 205 L (Drum)										

Check compatibility with critical alloys; • = Yes; – = No

Corrosion Preventives

Product name	Description	Iron, Steel	Copper	Alumi-nium	Film weight [g/m²]	Shed storage [Mon.]	Hall stor-age [Mon.]	FP [°C]	Thixo-tropic	VCI	Opti-mized lubri-cating proper-ties
					Volatile Corrosion Inhibitor						
ANTICORIT VCI UNI O 40	Corrosion protection of closed systems like tanks and gear boxes. Miscible with diesel, gear oils and other mineral oils	•	•	•	–	≤6	≤24	>120	–	•	–
	20 L (Canister), 205 L (Drum)										
ANTICORIT VCI UNI IP 30	Corrosion protection of closed packaging systems like blisters and card board boxes. Suitable for e. g. power train compo-nents and body in white parts	•	•	•	–	≤6	≤24	>60	–	•	–
	20 L (Canister), 205 L (Drum)										
ANTICORIT VCI GEL ***NEW***	Dry and clean preserva-tion of components, especially in closed packaging	n/a	–	–	–	–	≤24	–	•	•	–
	8 kg (Bucket)										
ANTICORIT VCI T ***NEW***	Vapor phase corrosion protection as a tablet that can be easily added into packaging units	n/a	–	–	–	–	≤24	–	–	•	–
	1,25 kg (Bottle)										
ANTICORIT VCI F P	VCI film for corrosion protection during shipping and storage (available as gusseted bags, flat films and others)	•	•	•	–	≤6	≤24	–	–	•	–
	On request										
ANTICORIT VCI P	VCI paper for protection during shipping and storage	•	•	•	–	≤6	≤24	–	–	•	–
	On request										

ANTICORIT

Product name	Description	Kin. visc. at 40 °C [mm²/s] DIN 51562	Density at 15 °C [KG/m³]	Con-sump-tion [l/m²]	Film weight [g/m²]	Shed storage [Mon.]	Hall storage [Mon.]
		Spraying Cans					
ANTICORIT 5F	Rust preventative spray forming a film with active water displacement	3.7 at 20 °C	813	–	2.5	6-12	12-24
	12 x 400 ml						
ANTICORIT BW 366	Solvent-based and durable high performance corrosion protection wax	FT 4mm nozzle = 60s	885	–	50	12-36	12-36
	12 x 400 ml						
ANTICORIT DFG	Rust preventative spray, after evaporation a highly viscous film is formed	8.5	851	–	5	3-6	6-12
	12 x 400 ml						
ANTICORIT RPC	Classic anti-corrosive oil and contact spray, multipurpose	84	887	–	5	6-12	6-24
	12 x 400 ml						
ANTICORIT CPX 3373	Solvent-free and durable high performance corrosion protection coating; curing oxidatively	Dyn. visc. at 300 1/s = 350mPas	1050	–	50	>36	>36
	12 x 400 ml						
ANTICORIT SYNTH	Synthetic multipurpose oil	102	834	–	15	3-6	6-12
	12 x 400 ml						
ANTICORIT RP 4107 S	Thixotropic corrosion protection oil, meets VDA 230-213	35	887	–	11	6-12	12-20
	12 x 400 ml						
ANTICORIT 350	Solvent-based, high performance corrosion protection wax, excellent multi-metal adhesion	FT - 4mm nozzle = 20s	920	–	50	12-36	12-36
	12 x 400 ml						
ANTICORIT SL SPRAY	Non-dripping rope lubricant for ropes under high mechanical or chemical loads. Good creep behavior, contains solid-state lubricant	n/a	870	–	5	6-12	12-24
	12 x 400 ml						
ANTICORIT SL-DS SPRAY	Preservating and lubricatin product for wire ropes under heavy mechanical and chemical stress	n/a	870	–	5	6-12	12-24
	12 x 400 ml						

Check compatibility with critical alloys; • = Yes; – = No

Cold Forming Lubricants



Product name	Description	Kin. visc. at 40 °C [mm²/s]	Density at 15 °C [g/ml]	Flash point [°C]	Steel (a. alloyed, zinc plated)	Steel, stainless	Aluminum	Copper alloys
Non Water-miscible Cold Forming Lubricants for Deep Drawing								
RENOFORM ZO 3107/22 Advanced Circular Technologies	Low-viscosity high-performance lubricant for nonferrous metals	21	0.86	200	●○	●○	●●	●
	50 L (Canister), 205 L (Drum), 1000 L (IBC)							
RENOFORM DMO 3027 Advanced Circular Technologies	Low-viscosity, mineral oil based forming lubricant for drawing and stamping operations	28	0.91	190	●●	●	●○	○
	205 L (Drum), 1000 L (IBC)							
RENOFORM 96	Classic, powerful multi-purpose lubricant	39	0.92	182	●●	●	●○	○
	205 L (Drum), 1000 L (IBC), Tank Truck							
RENOFORM ZO 3408	Based upon synthetic ingredients high performance forming lubricant. Suitable for all common metals, including non ferrous metals	45	0.96	180	●●	●	●●	●●
	20 L (Canister), 205 L (Drum)							
RENOFORM DSO 5005	Based upon synthetic ingredients highest performance forming lubricant. Especially suitable for difficult deep drawing of steel including stainless steel.	97	0.95	>180	●●	●●	●○	○
	205 L (Drum)							

RENOFORM

Product name	Description	Kin. visc. at 40 °C [mm²/s]	Density at 15 °C [g/ml]	Flash point [°C]	Steel (a. alloyed, zinc plated)	Steel, stainless	Aluminum	Copper alloys
Non Water-miscible Cold Forming Lubricants for Deep Drawing								
RENOFORM PLUS 93 B	Mineral oil based forming lubricant with EP agents and high lubricity	110	0.93	204	●●	●	●○	○
	205 L (Drum), 1000 L (IBC)							
RENOFORM ZO 3180	Classic, powerful multi-purpose forming lubricant at higher viscosity level	117	0.98	180	●●	●	●○	○
	20 L (Canister), 205 L (Drum), 1000 L (IBC)							
RENOFORM DSO 5012	Highest-performance forming lubricant especially for stainless steel applications. Based upon synthetic ingredients and EP agents	167	1.02	>180	●	●●	●○	○
	205 L (Drum), 1000 L (IBC)							
RENOFORM DYO 5007	High-performance, mineral oil based forming lubricant for non-ferrous-metals, especially designed for aluminum deep drawing.	170	0.91	>200	●○	●○	●●	●
	205 L (Drum)							
RENOFORM DSO 5015	Based upon synthetic ingredients highest performance forming lubricant. Especially suitable for difficult deep drawing of steel including stainless steel.	165	1.00	>180	●●	●●	●○	○
	205 L (Drum)							
RENOFORM ZO 3107/180	High viscous, high-performance lubricant for nonferrous metals	180	0.89	200	●○	●○	●●	●
	205 L (Drum)							
RENOFORM 19 B	High-performance forming lubricant for deep drawing of steel and aluminum	205	0.96	200	●●	●	●	○
	205 L (Drum)							
RENOFORM DMO 7001	Mineral oil based, high viscosity forming lubricant for steel deep drawing, especially for stainless steel.	633	0.97	200	●●	●●	○	○
	205 L (Drum), 1000 L (IBC)							
RENOFORM HBO 3212	High-viscosity, high-performance lubricant for deep drawing of different kind of steel	840	0.96	200	●●	●●	●	○
	205 L (Drum)							

●● = very suitable; ● = suitable; ●○ = conditional; ○ = unsuitable

Cold Forming Lubricants

Product name	Description	Kin. visc. at 40 °C [mm²/s]	Density at 15 °C [g/ml]	Flash point [°C]	Steel (a. alloyed, zinc plated)	Steel, stainless	Aluminum	Copper alloys
Water-miscible Cold Forming Lubricants for Deep Drawing								
RENOFORM MBW 677/6	Mineral oil based, water-miscible high-performance lubricant. Concentrate for emulsion	165	0.98	200	●●	●	●○	○
	205 L (Drum), 1000 L (IBC)							
RENOFORM MBW 2055	Mineral oil based, water-miscible forming lubricant, concentrate for emulsion	200	0.97	200	●●	●	●●	○
	205 L (Drum), 1000 L (IBC)							
RENOFORM MBW 2815	Mineral oil based, water-miscible high performance forming lubricant, concentrate for emulsion	334	0.99	200	●●	●	●○	○
	205 L (Drum)							
RENOFORM DSW 2012	Synthetic, water-based forming lubricant for a wide range of forming processes (drawing, stamping and bending processes) with a large variety of material compatibility	3	1.03	–	●●	●	●	●○
	205 L (Drum), 1000 L (IBC)							
RENOFORM DSW 5301	Water-miscible, synthetic forming lubricant for a wide range of forming processes (drawing, stamping and bending processes).	5.7	1.02	–	●●	●	○	○
	205 L (Drum), 1000 L (IBC)							
RENOFORM DSW 4005	Water-miscible, synthetic forming lubricant for a wide range of forming processes (drawing, stamping and bending processes). Especially usable for titanium. Concentrate for solution	79	1.09	–	●●	●●	●	●○
	205 L (Drum), 1000 L (IBC)							
Pasty Cold Forming Lubricants for Deep Drawing								
RENOFORM HBT 581/3	Mineral oil containing, non water-miscible and pigmented paste	–	0.97	–	●●	●	●	○
	180 kg (Drum)							
RENOFORM PRESSALIN	Synthetic, water-miscible and pigmented forming paste for various demanding deep-drawing operations	–	1.00	–	●●	●●	●	○
	25 kg (Hobbock), 160 kg (Drum)							

●● = very suitable; ● = suitable; ●○ = conditional; ○ = unsuitable

RENOFORM

Product name	Description	Kin. visc. at 40 °C [mm²/s]	Density at 15 °C [g/ml]	Flash point [°C]	Steel (a. alloyed, zinc plated)	Steel, stainless	Aluminum	Copper alloys
Cold Forming Lubricants for Stamping								
RENOFORM DMO 2003	Low-viscosity blanking oil for steel	8.3	0.85	170	●●	●○	●	○
	205 L (Drum), 1000 L (IBC)							
RENOFORM AK 3080	Synthetic forming lubricant for blanking, stamping, bending and drawing processes. Especially for non ferrous metals	19.5	0.84	172	●	●	●●	●●
	20 L (Canister), 205 L (Drum)							
RENOFORM ZO 3107/22	Low-viscosity forming lubricant for non ferrous metals	21	0.86	200	●○	●○	●●	●
	20 L (Canister), 205 L (Drum), 1000 L (IBC)							
RENOFORM DMO 3027 Advanced Circular Technologies	Low-viscosity, mineral oil based forming lubricant for drawing and stamping operations	28	0.91	190	●●	●	●	○
	205 L (Drum), 1000 L (IBC)							
RENOFORM 96	Low-viscosity, mineral oil based forming lubricant for drawing and stamping operations	39	0.92	182	●●	●	●○	○
	205 L (Drum), 1000 L (IBC), Tank Truck							
RENOFORM DMO 3038	Low-viscosity, mineral oil based forming lubricant for drawing and stamping operations. Especially for non ferrous metals	40	0.90	>180	●	●○	●●	●●
	205 L (Drum)							
RENOFORM ZO 3368	High-performance blanking oil of medium viscosity for processing a wide range of materials	51	0.98	180	●●	●●	●●	○
	20 L (Canister), 205 L (Drum)							
RENOFORM DMO 4034	Low viscosity, versatile forming lubricant, especially for stainless steel grades	52	0.92	180	●●	●●	●	○
	20 L (Canister), 205 L (Drum)							
RENOFORM HBO 2222	High-performance stamping lubricant for all kinds of steel, also suitable for fine blanking	58	1.02	186	●●	●	●○	○
	205 L (Drum), 1000 L (IBC)							
RENOFORM HBO 962/2	All purpose forming lubricant for stamping and drawing of steel	80	0.93	230	●●	●	●○	○
	20 L (Canister), 205 L (Drum), 1000 L (IBC)							
RENOFORM FSO 4001 Advanced Circular Technologies	Based upon synthetic ingredients high performance forming lubricant. Suitable for all common metals, including non ferrous metals	93	0.95	180	●	●●	●	●●
	205 L (Drum)							

Cold Forming Lubricants

Product name	Description	Kin. visc. at 40 °C [mm²/s]	Density at 15 °C [g/ml]	Flash point [°C]	Steel (a. alloyed, zinc plated)	Steel, stainless	Aluminum	Copper alloys
Cold Forming Lubricants with Solvents for Stamping								
RENOFORM SVO/SP	Almost fast vanishing forming lubricant for light-duty application	1.3	0.75	47	••	•	••	••
	205 L (Drum)							
RENOFORM UBO 377/1	Almost vanishing forming lubricant for easy applications	1.7	0.79	61	••	•	••	••
	205 L (Drum), 1000 L (IBC)							
RENOFORM DMV 1011	Almost residue-free vanishing forming lubricant for light-duty applications	2.0	0.79	62	••	•	••	••
	205 L (Drum), 1000 L (IBC)							
RENOFORM UBO 377/5	Vanishing forming lubricant with less residue	2	0.80	61	••	•	••	••
	20 L (Canister), 205 L (Drum), 1000 L (IBC)							
RENOFORM AK 3085	Vanishing forming lubricant with less residue. Especially for aluminum and nonferrous metals	2.3	0.80	61	•	•	••	••
	20 L (Canister), 205 L (Drum)							
RENOFORM DMV 1009	Vanishing forming lubricant with low residue	2.5	0.80	61	••	•	••	••
	20 L (Canister), 205 L (Drum), 1000 L (IBC)							
RENOFORM AK 3099 CF/1	Vansihing forming lubricant with low residue. Especially for nonferrous metals	2.3	0.79	61	•	•	••	••
	20 L (Canister), 205 L (Drum), 1000 L (IBC)							
RENOFORM DMV 1014	Vanishing forming lubricant with low residue. Especially for non-ferrous metals.	2.8	0.77	62	•	•	••	••
	205 L (Drum), 1000 L (IBC)							
RENOFORM AK 3107	Vansihing forming lubricant with low residue especially for aluminium applications	3.2	0.81	65	•	•	••	••
	205 L (Drum)							
RENOFORM ZO 3107/5	Vanishing forming lubricant with low residue especially for aluminum applications.	8.3	0.83	65	•	•	••	••
	20 L (Canister)							
RENOFORM DMV 1012	Partly vanishing forming lubricant for sophisticated applications	4	0.82	62	••	••	••	••
	205 L (Drum), 1000 L (IBC)							

RENOFORM

Product name	Description	Kin. visc. at 40 °C [mm²/s]	Density at 15 °C [g/ml]	Flash point [°C]	Steel (a. alloyed, zinc plated)	Steel, stainless	Aluminum	Copper alloys
Cold Forming Lubricants with Solvents for Stamping								
RENOFORM LVO 377/1	Almost residue-free vanishing forming lubricant for light-duty applications. VOC-free	3.5	0.82	101	••	•	••	••
	205 L (Drum)							
RENOFORM LVO 1518	Partly vanishing forming lubricant for sophisticated applications. VOC-free	7.4	0.84	101	••	••	•	○
	205 L (Drum), 1000 L (IBC)							

•• = very suitable; • = suitable; •○ = conditional; ○ = unsuitable

Cold Forming Lubricants

Product name	Description	Kin. visc. at 40 °C [mm²/s]	Density at 15 °C [g/ml]	Flash point [°C]	Steel (a. alloyed, zinc plated)	Steel, stainless	Aluminum	Copper alloys
Cold Forming Lubricants for Fine Blanking								
RENOFORM 96	Classic, powerful multi-purpose forming lubricant	39	0.92	182	●	●	●○	○
	205 L (Drum), 1000 L (IBC), Tank Truck							
RENOFORM FMO 4008 NEW	Fine blanking lubricant for steel	80	0.97	192	●●	●	●○	○
	205 L (Drum), 1000 L (IBC)							
RENOFORM FSO 4001 Advanced Circular Technologies	Fineblanking lubricants for non ferrous metals, especially aluminum.	93	0.95	180	●	●●	●	●●
	205 L (Drum)							
RENOFORM FMO 5020	High-performance lubricant for various forming technologies, especially fine blanking of steel	112	0.96	200	●●	●	●○	○
	205 L (Drum), 1000 L (IBC), Tank Truck							
RENOFORM ZO 3180	Classic, powerful multi-purpose forming lubricant at higher viscosity level	117	0.98	180	●●	●	●○	○
	20 L (Canister), 205 L (Drum), 1000 L (IBC)							
RENOFORM HBO 2222 HV	Classic fine blanking lubricant with high performance for steel grades	130	1.04	190	●●	●	●○	○
	205 L (Drum)							
RENOFORM ZSB 120 JBM	Fine blanking lubricant for all kinds of steel	130	0.96	>160	●●	●	●○	○
	205 L (Drum), 1000 L (IBC)							
RENOFORM DSO 5012	Highest-performance forming lubricant especially for stainless steel. Based upon synthetic ingredients and EP agents	167	1.02	>180	●	●●	●○	○
	205 L (Drum), 1000 L (IBC)							
RENOFORM FMO 5010	High-performance lubricant for various forming technologies, especially fine blanking of steel	170	0.95	200	●●	●	●○	○
	205 L (Drum)							
RENOFORM FMO 5022	Highest performance fine blanking oil for steel	183	0.96	168	●●	●	●○	○
	205 L (Drum), 1000 L (IBC)							

RENOFORM

Product name	Description	Kin. visc. at 40 °C [mm²/s]	Density at 15 °C [g/ml]	Flash point [°C]	Steel (a. alloyed, zinc plated)	Steel, stainless	Aluminum	Copper alloys
Cold Forming Lubricants for Cold Extrusion								
RENOFORM MBO 369/2	Classic, heavy duty cold extrusion oil	123	0.95	220	●●	●	●	○
	205 L (Drum), 1000 L (IBC)							
RENOFORM DMO 7001	Forming lubricant for cold extrusion of fasteners and screws. Especially for stainless steel	633	0.97	200	●●	●●	○	○
	205 L (Drum), 1000 L (IBC)							
RENOFORM ZO 3373 Advanced Circular Technologies	High-performance lubricant for cold forging even at elevated temperatures	122	0.91	200	●●	●	●●	○
	205 L (Drum), 1000 L (IBC)							
RENOFORM EMO 4020	Powerful forming lubricant for cold extrusion, especially steel	93	0.95	>180	●●	●	●	○
	205 L (Drum)							
Cold Forming Lubricants for WTB Drawing (Wire - Tube - Bar)								
RENOFORM HBO 3014	High-performance lubricant for drawing of round and cantilever steel rods	320	1.01	190	●●	●	●	○
	205 L (Drum), 1000 L (IBC)							
RENOFORM TYW 4009	Water-miscible forming lubricant for copper wire drawing. Emulsion concentrat	56	0.95	110	○	○	●○	●●
	205 L (Drum)							
Cold Forming Lubricants for Hydroforming								
RENOFORM MBO 2907	Synthetic demulsifying external lubricant for hydroforming	122	0.96	200	●●	●	●○	●○
	205 L (Drum)							
RENOFORM HMO 7001	Mineral oil based external lubricant for hydroforming	630	0.91	>200	●●	●	●○	○
	205 L (Drum)							
RENOFORM DSW 2004	Water-miscible hydroforming pressurising lubricant	1.1	1.05	–	●●	●	●	●
	205 L (Drum)							

●● = very suitable; ● = suitable; ●○ = conditional; ○ = unsuitable

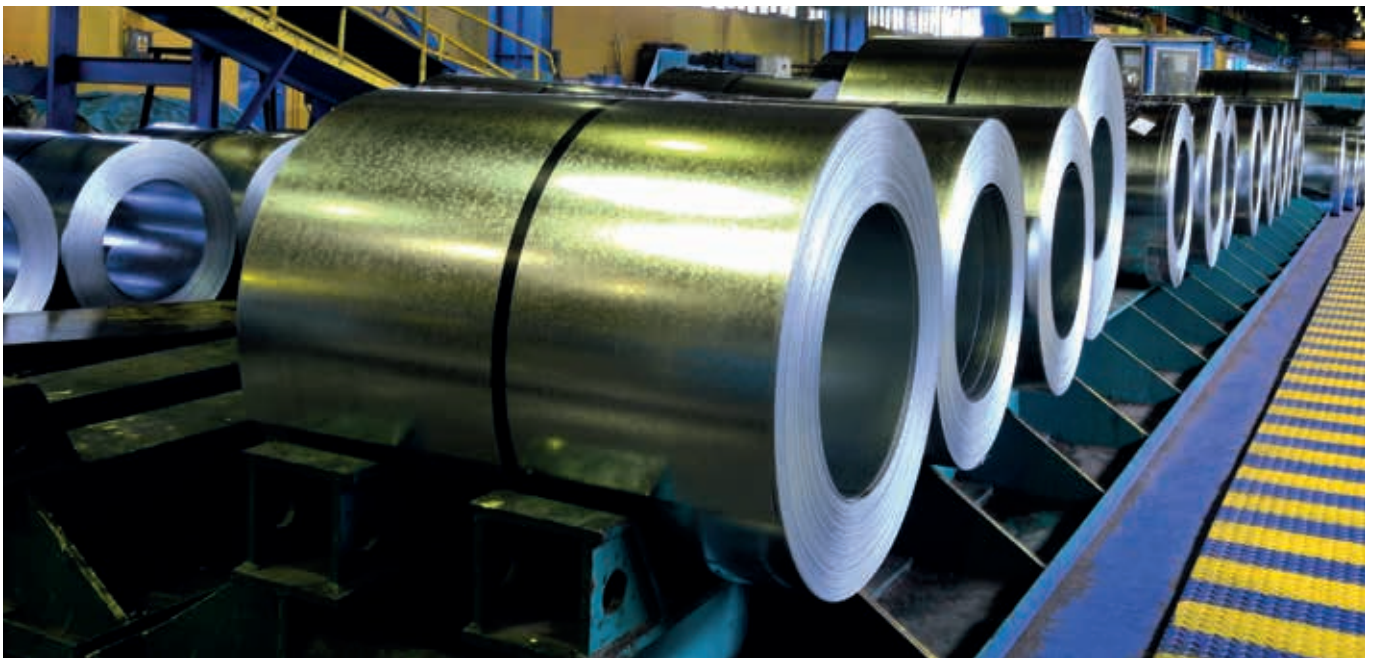
Cold Forming Lubricants



Product name	Description	Kin. visc. at 40 °C [mm²/s]	Density at 15 °C [g/ml]	Flash point [°C]	Steel (a. alloyed, zinc plated)	Steel, stainless	Aluminum	Copper alloys
			VDA Forming Lubricants					
RENOFORM MCO 3802 SN	Spot lubricant in the car body shop for light to medium forming and stamping operations, fulfills the requirements of VDA 201-213	100	0.91	142	●●	●	●●	●○
	205 L (Drum)							
RENOFORM MCO 3802	Spot lubricant in the body shop for medium and heavy forming operations, fulfills the requirements of VDA 201-213	130	0.91	155	●●	●	●●	●○
	205 L (Drum), 1000 L (IBC), Tank Truck							
RENOFORM MCO 3802 LV	Predominantly fast evaporating forming lubricant for stamping, bending and light drawing operations. Film corresponds to RENOFORM MCO 3028	2.1 at 20 °C	0.77	62	●●	●	●●	●○
	205 L (Drum), 1000 L (IBC)							
RENOFORM MCO 3802 MV	Spot lubricant in the car body shop for light to medium forming and stamping operations	7	0.85	100	●●	●	●●	●○
	205 L (Drum)							

Rolling Oils

RENOFORM



Product name	Description	Kin. visc. at 40 °C [mm²/s]	Density at 15 °C [g/ml]	Flash point [°C]	Steel (a. alloyed, zinc plated)	Steel, stainless	Aluminum	Copper alloys
Non Water-miscible Rolling Oils								
RENOFORM WO 52 B	Cold rolling oil and skin pass oil with excellent corrosion protection	5.6	0.85	128	●●	●	●○	●○
	205 L (Drum), 1000 L (IBC), Tank Truck							
RENOFORM WO 79 A	Cold rolling oil with additional EP additives	8.5	0.85	170	●●	●	●○	●○
	205 L (Drum)							
RENOFORM CCO 40	Cold rolling for nonferrous metals	5	0.83	148	●●	●	●○	●●
	Tank Truck							

Further rolling oils and rolling emulsions on request.
●● = very suitable; ● = suitable; ●○ = conditional; ○ = unsuitable

Hot Forming Lubricants



Hot forming places high demands on the lubricants used. On the one hand, there is the need to lubricate and cool tools, and on the other hand, hot forming processes are subject to a large number of influencing factors. FUCHS hot forming lubricants not only cover a very wide range of applications, but also stand for excellent part quality, optimum machine utilization, reduced operating costs and lower environmental impact.

Product name	Description	Dry residue [%]	RF-value [%]	Visc. [mPas]	Density [g/cm³]	Water-miscible	Solids	Material recommendation
Hot Forming Lubricants for Drop Forging								
GRASINOL 10 %	Dispersion of graphite in mineral oil for forging of complex aluminum components	–	–	600	1.01	○	Graphite	Aluminium
	180 kg (Drum)							
HYKOGEEN 217	Oil-graphite dispersion for forging of complex steel components	–	–	6500	1.00	○	Graphite	Steel
	25 kg (Bucket), 190 kg (Drum)							
HYKOGEEN 87/3	Graphite-containing forming lubricant for forging of complex brass components	–	–	2000	0.91	○	Graphite	Brass
	25 kg (Pail), 180 kg (Drum)							
HYKOGEEN 87/43	Forming lubricant for long extrusion paths, e.g. in the forging of car valves	–	–	5500	–	○	Graphite	Steel
	25 kg (Bucket)							
HYKOGEEN G 30	Dispersion of highly ground, chemically pure graphite in mineral oil for hot forming of steel and metals	–	–	>15000	1.10	○	Graphite	Steel
	185 kg (Drum)							
HYKOGEEN G 60	Highly concentrated dispersion of graphite in mineral oil for hot forming of steel and metals	–	–	–	1.30	○	Graphite	Steell
	25 kg (Bucket)							
HYKOGEEN MB 1000	Graphite-containing forming lubricant for forging of complex brass components	–	–	2000	0.94	○	Graphite	Brass
	25 kg (Pail), 180 kg (Drum), 900 kg (IBC)							

HYKOGEEN, LUBRODAL

Product name	Description	Dry residue [%]	RF-value [%]	Visc. [mPas]	Density [g/cm³]	Water-miscible	Solids	Material recommendation
Hot Forming Lubricants for Drop Forging								
HYKOGEEN UMD 2/1	Versatile graphite dispersion for hot forming of steel and metals	–	–	–	1.10	○	Graphite	Steel
	25 kg (Pail), 200 kg (Drum)							
LUBRODAL A 127 N	Graphite containing forming lubricant for isothermal forging of most complex aluminium parts	11.5	–	800	0.95	○	Graphite	Aluminium
	25 kg (Pail), 180 kg (Drum)							
LUBRODAL F 150 G ***NEW***	Water-graphite dispersion for steel forging with a wide wetting temperature range and excellent lubrication properties	25	–	1200	–	●	Graphite	Steel
	25 kg (Bucket), 220 kg (Drum), 1100 kg (IBC)							
LUBRODAL F 18/24 W - AF	Graphite-containing emulsion for forging of highly complex aluminum components	46	–	3500	1.05	●	Graphite	Aluminium
	25 kg (Bucket), 200 kg (Drum), 1000 kg (IBC)							
LUBRODAL F 190 G ***NEW***	Graphite-containing forming lubricant with increased release power and propulsive effect for hot forming operations of steel	40.5	–	1800	–	●	Graphite	Steel
	25 kg (Bucket), 220 kg (Drum), 1200 kg (IBC)							
LUBRODAL F 20 CH	Economical water-graphite dispersion for steel forging with high active agent concentration	42	–	3000	1.30	●	Graphite	Steel
	25 kg (Bucket), 220 kg (Drum), 1200 kg (IBC)							
LUBRODAL F 21 A SET	Hot forming lubricant for forging of steel providing highest process stability and plant availability	32	–	950	1.22	●	Graphite	Steel
	25 kg (Bucket), 200 kg (Drum), 1000 kg (IBC)							
LUBRODAL F 2336	Graphite-containing forming lubricant for isothermal forging of highly complex aluminum components	–	–	600	–	○	Graphite	Aluminium
	25 kg (Pail), 180 kg (Drum)							
LUBRODAL F 24 W	Graphite-containing emulsion, particularly suitable for semi-hot forging of complex steel components	50	–	3500	1.05	●	Graphite	Steel
	25 kg (Bucket), 200 kg (Drum), 1000 kg (IBC)							
LUBRODAL F 25 AL	Emulsion concentrate for forging aluminum components with the highest demands on surface quality	22	–	<50	0.98	●	–	Aluminium
	10 kg (Canister), 25kg (Canister), 200 kg (Drum)							
LUBRODAL F 25 D	Water-graphite dispersion for precision forging of steel components	25	–	300	1.15	●	Graphite	Steel
	25 kg (Bucket), 1000 kg (IBC)							

● = suitable; ○ = unsuitable

Hot Forming Lubricants

Product name	Description	Dry residue [%]	RF-value [%]	Visc. [mPas]	Density [g/cm³]	Water-miscible	Solids	Material recommendation
Hot Forming Lubricants for Drop Forging								
LUBRODAL F 25 PLE	Versatile water-graphite dispersion for forging of steel	28	–	2000	1.15	•	Graphite	Steel
	25 kg (Bucket), 210 kg (Drum), 1000 kg (IBC)							
LUBRODAL F 27 AL	Graphite-, wax- and solid-free forming lubricant for forging of complex aluminum components	20.5	–	1500	–	•	–	Aluminium
	25 kg (Canister), 200 kg (Drum)							
LUBRODAL F 29/2 - TB	Forming lubricant for forging turbine blades from titanium or nickel-based alloys	36.5	–	–	1.22	•	Graphite	Titanium Nickel-base
	25 kg (Bucket), 220 kg (Drum), 1000 kg (IBC)							
LUBRODAL F 31 EB	Economical water-graphite dispersion for forging of steel	32	–	2200	1.20	•	Graphite	Steel
	25 kg (Bucket), 1000 kg (IBC)							
LUBRODAL F 318	Economical, graphite-free forming lubricant for forging of steel components	–	26.5	400	1.11	•	–	Steel
	25 kg (Canister), 220 kg (Drum), 1000 kg (IBC)							
LUBRODAL F 318 N - HV	Graphite-free forming lubricant for forging of complex steel components	26	32	500	1.16	•	–	Steel
	1000 kg (IBC)							
LUBRODAL F 327	Graphite-free forming lubricant for forging of steel with elevated tool temperatures	–	35	800	–	•	–	Steel
	25 kg (Canister), 220 kg (Drum), 1100 kg (IBC)							
LUBRODAL F 33 AL	Water-graphite dispersion with emulsified ester content for forging of complex aluminum components	30	–	2000	1.12	•	Graphite	Aluminium
	25 kg (Pail), 210 kg (Drum), 1000 kg (IBC)							
LUBRODAL F 36	Graphite-containing, mineral oil-free emulsion for isothermal forging of highly complex aluminum components	23.25	–	1400	–	•	Graphite	Aluminium
	25 kg (Pail), 200 kg (Drum), 1000 kg (IBC)							
LUBRODAL F 3629	Water-graphite dispersion for highest wetting temperatures	19	–	350	–	•	Graphite	Steel
	25 kg (Bucket)							
LUBRODAL F 3670	High-performance lubricant for the isothermal forging of complex aluminum components	–	–	450	–	○	Graphite	Aluminium
	25 kg (Pail), 180 kg (Drum), 900 kg (IBC)							
LUBRODAL F 37	Graphite-containing, mineral oil-free emulsion for isothermal forging of highly complex aluminum components with improved lubrication performance	23.25	–	1400	–	•	Graphite	Aluminium
	25 kg (Pail), 200 kg (Drum)							

LUBRODAL, ZONAL

Product name	Description	Dry residue [%]	RF-value [%]	Visc. [mPas]	Density [g/cm³]	Water-miscible	Solids	Material recommendation
Hot Forming Lubricants for Drop Forging								
LUBRODAL F 40 S	Graphite-free emulsion for forging of metals	40	–	–	0.99	•	–	Brass
	25 kg (Canister), 200 kg (Drum), 1000 kg (IBC)							
LUBRODAL F 41 G	Hot and semi-hot forming of steel on fully automated forging lines	32.5	–	1300	–	•	Graphite	Steel
	25 kg (Bucket), 1000 kg (IBC)							
LUBRODAL F 442	Water-graphite dispersion for very high wetting temperatures and long flow paths	40	–	1150	–	•	Graphite	Steel
	25 kg (Bucket), 230 kg (Drum), 1000 kg (IBC)							
LUBRODAL F 53/40	Graphite-free forming lubricant for forging of very complex steel components	33	37	1400	1.18	•	–	Steel
	25 kg (Canister), 220 kg (Drum), 1200 kg (IBC)							
LUBRODAL F 645 AFE	Forging of complex steel components on fully automated forging lines with circulation lubrication	18	–	1250	1.10	•	Graphite	Steel
	25 kg (Bucket), 200 kg (Drum), 1000 kg (IBC)							
LUBRODAL F70M - 40 LV	Highly concentrated water-graphite dispersion for forging of large steel components with long contact times	50	–	3500	1.40	•	Graphite	Steel
	25 kg (Bucket), 230 kg (Drum), 1000 kg (IBC)							
LUBRODAL W 27 F	Water-graphite dispersion for precision forging of steel	27	–	1500	–	•	Graphite	Steel
	25 kg (Bucket), 210 kg (Drum), 1000 kg (IBC)							
ZONAL 1000	Dispersion of highly ground graphite in mineral oil	–	–	1000	–	○	Graphite	Steel
	20 kg (Canister), 200 kg (Drum)							
ZONAL 1002	Dispersion of highly ground graphite in mineral oil	–	–	330	–	○	Graphite	Steel
	20 kg (Canister), 180 kg (Drum)							

• = suitable; ○ = unsuitable

Hot Forming Lubricants

Product name	Description	Dry residue [%]	RF-value [%]	Visc. [mPas]	Density [g/cm³]	Water-miscible	Solids	Material recommendation
Hot Forming Lubricants for Hammer Forging								
LUBRODAL F 185	Graphite-containing forming lubricant with increased release power and propulsive effect	25	–	1750	–	•	Graphite	Steel
	25 kg (Bucket), 200 kg (Drum), 1000 kg (IBC)							
LUBRODAL F 64 GM Advanced Circular Technologies	Forming lubricant for hammer forging of complex steel components with very high propulsive effect	35	–	100	1.16	•	–	Steel
	25 kg (Canister), 220 kg (Drum)							
Hot Forming Lubricants for High-speed Forging								
LUBRODAL C 102	Start-up additive for circulation baths in high-speed forging	40	–	–	0.99	•	–	Steel
	25 kg (Canister)							
LUBRODAL C 48 PM Advanced Circular Technologies	High-speed forging of highly complex steel components (hot and semi-hot)	35	–	900	1.15	•	–	Steel
	25 kg (Canister), 220 kg (Drum), 1000 kg (IBC)							
LUBRODAL F 270 EP	EP additive for circulation baths in high-speed forging	24.5	25	–	–	•	–	Steel
	25 kg (Canister)							
LUBRODAL F 318 H	Graphite-free forming lubricant for high-speed forging of steel components	–	39	500	1.17	•	–	Steel
	220 kg (Drum), 1000 kg (IBC)							
LUBRODAL F 47 S NEW	Hot forming lubricant for high-speed forging of steel with integrated EP-additive and corrosion inhibitor package	35	–	1450	1.15	•	–	Steel
	25 kg (Canister), 220 kg (Drum), 1100 kg (IBC)							

LUBRODAL

Product name	Description	Dry residue [%]	RF-value [%]	Visc. [mPas]	Density [g/cm³]	Water-miscible	Solids	Material recommendation
Hot Forming Lubricants for Rotatory Forming Operations								
LUBRODAL F 400	Graphite-free hot forming lubricant for forging of steel or especially for flow forming processes as in the production of aluminum rims	–	38	375	1.17	•	–	Aluminium
	25 kg (Canister), 220 kg (Drum), 1000 kg (IBC)							
LUBRODAL F 53/318	Graphite-free hot forming lubricant, particularly suitable for ring rolling of steel	–	37	500	1.16	•	–	Steel
	200 kg (Drum), 1000 kg (IBC)							
LUBRODAL F 70 B	Graphite-containing mandrel bar lubricant for seamless tube production	50	–	7000	1.40	•	Graphite	Steel
	230 kg (Drum), 1000 kg (IBC)							
LUBRODAL F 95	Graphite-containing emulsion, particularly suitable for rotary forging of large aluminum components	50	–	4500	1.25	•	Graphite	Aluminium
	200 kg (Drum)							
LUBRODAL ST 500 V	Graphite-free mandrel bar lubricant for seamless tube production	44	–	20	1.45	•	–	Steel
	1400 kg (IBC)							
Hot Forming Lubricants for Billet Pretreatment								
LUBRODAL FC 331	Pre-graphiting agent for semi-hot forming of steel	30	–	4000	1.20	•	Graphite	Steel
	25 kg (Bucket), 220 kg (Drum)							
LUBRODAL FC 441	Pre-graphiting agent for hot forming of steel	41	–	4500	1.29	•	Graphite	Steel
	25 kg (Bucket), 230 kg (Drum)							
LUBRODAL RV 20	Billet coating to prevent sticking during heating	22	–	250000	–	•	white	Steel
	25 kg (Bucket)							
LUBRODAL SR 300	Scale minimization agent for hot forming of steel	27	22	–	–	•	–	Steel
	5 kg (Canister), 25 kg (Canister), 220 kg (Drum), 1000 kg (IBC)							
LUBRODAL SR 900	Scale minimization and reduction of skin decarburization for large steel billets	42	–	600	–	•	weiß	Steel
	25 kg (Bucket), 250 kg (Drum)							
LUBRODAL ZG 600	Scale reduction agent for semi-hot forming of steel	44	35	–	–	•	–	Steel
	5 kg (Canister), 25 kg (Canister), 1200 kg (IBC)							

• = suitable; ○ = unsuitable

Hot Forming Lubricants

Product name	Description	Dry residue [%]	RF-value [%]	Visc. [mPas]	Density [g/cm³]	Water-miscible	Solids	Material recommendation
Release Agents and Auxiliary Materials for Pressure Die Casting								
HYKOGEEN EP 10	Ejector lubricant	–	–	–	0.90	○	Graphite	Aluminium
	1 kg (Can), 15 kg (Bucket)							
HYKOGEEN LS 50	Burn-in paste for casting ladles and related tools in metal casting	–	–	–	1.30	○	white	Aluminium
	1 kg (Can), 5 kg (Bucket), 25 kg (Bucket)							
HYKOGEEN LS 507	Facing for casting ladles, tools, funnels and spouts in aluminium pressure die casting	–	–	–	1.20	○	Graphite	Aluminium
	1 kg (Can), 25 kg (Bucket)							
HYKOGEEN P 550	Graphite-free, liquid plunger lubricant for pressure die casting machines	–	–	2000	0.91	○	–	Aluminium
	5 kg (Canister), 25 kg (Pail)							
HYKOGEEN P 770	Graphite-containing, liquid plunger lubricant for pressure die casting machines	–	–	1700	0.93	○	Graphite	Aluminium
	25 kg (Pail)							
HYKOGEEN RLP 100 Advanced Circular Technologies	Minimum quantity lubricant for aluminum pressure die casting	–	–	200	–	○	–	Aluminium
	180 kg (Drum)							
HYKOGEEN ZN 10	Water-free die casting release agent for zinc pressure die casting	–	–	–	0.77	○	–	Zinc
	20 kg (Canister), 150 kg (Drum)							
LUBRODAL AL 100/21	Emulsion concentrate for pressure die casting of highly complex components made of aluminum or magnesium	–	–	< 50	0.99	●	–	Aluminium
	25 kg (Canister), 200 kg (Drum), 1000 kg (IBC)							
LUBRODAL C 35/40	Mineral oil-based emulsion for pressure die casting of metals	40	–	–	0.99	●	–	Aluminium
	25 kg (Canister), 200 kg (Drum)							

HYKOGEEN, LUBRODAL

Product name	Description	Dry residue [%]	RF-value [%]	Visc. [mPas]	Density [g/cm³]	Water-miscible	Solids	Material recommendation
Other Products for Hot Forming								
HYKOGEEN 820 NEW	Highly concentrated dispersion of white solid lubricants in mineral oil for hot forming				1.60	○	white	Steel
	1 kg (Can), 5 kg (Bucket), 25 kg (Bucket), 70 kg (Pail)							
HYKOGEEN 821	Dispersion of white solid lubricants in mineral oil for hot forming with improved flowability				0.95	○	white	Steel
	1 kg (Can), 5 kg (Canister), 25 kg (Pail)							
HYKOGEEN KS 706 Advanced Circular Technologies	Biodegradable mold facing for continuous aluminium casting			600		○	–	Aluminium
	55 kg (Drum)							
HYKOGEEN PASTE 712	Graphite-containing paste with very good adhesion for lubricating very critical areas in hot forming					○	Graphite	Steel
	5 kg (Bucket), 25 kg (Bucket), 190 kg (Drum)							
LUBRODAL C 120	Versatile graphite dispersion that forms a very smooth, polishable layer	36		15000		•	Graphite	Steel
	10 kg (Canister), 30 kg (Pail)							
LUBRODAL C 52 C	White mold facing for nonferrous metal casting	52		2000	1.45	•	white	Aluminium
	10 kg (Bucket)							
LUBRODAL F 30 DS	Versatile graphite dispersion with very good adhesion even on cold surfaces	40		6000		•	Graphite	Steel
	25 kg (Bucket), 220 kg (Drum)							
LUBRODAL SQC/1	Mold facing for squeeze casting of aluminum with high release and lubricating effect	23		3200	1.20	•	white	Aluminium
	30 kg (Pail)							
LUBRODAL W 27 F - ES	Coating of anode stubs in aluminum production	22		2000		•	Graphite	Aluminium
	25 kg (Bucket), 210 kg (Drum)							
WAGRAS ZZ 20	Graphite-containing mold facing	21.5			1.17	•	Graphite	Aluminium
	1 kg (Bottle), 10 kg (Bucket), 25 kg (Bucket), 200 kg (Drum)							

• = suitable; ○ = unsuitable



SPECIAL APPLICATION LUBRICANTS

The product range of FUCHS includes lubricants and release agents for highly specialized applications. These lubricants are always used where the performance of conventional lubricants for the special application reaches its limits. They are marked with FUCHS Special Applications.

FUCHS Special Applications

FUCHS develops highly specialized lubricants and related specialties in close cooperation with customers in order to offer tailor-made solutions. This has resulted in a very broad portfolio over the last decades that is characterized by its performance - even under extreme conditions. Furthermore, special application lubricants from FUCHS stand for sustainability as well as for safety, reliability and economy.



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FUCHS Special Applications

Concrete Release Agents



Product name	Description	Visc. at 20 °C [mm²/s]	Flash point [°C]	Bio-degradability [% after 28 d]	Water pollution category (German regulation)	GISCODE	Shelf life [months]
Solvent-based Concrete Release Agents for Precast Plants							
RENOCAST RA 1280 (Formerly: SOK 128)	Ready-to-use concrete release agent for all common types of formwork. Particularly well suited for e.g. exposed concrete, slabs, beams, special elements.	≤ 4.5	28	n/a	1	BTM 50	24
RENOCAST RA 1270 (Formerly: SOK ULTRA)		≤ 4.5	28	n/a	1	BTM 50	24
RENOCAST RA 1290 (Formerly: SOK 912)		≤ 4.5	28	n/a	1	BTM 50	24
RENOCAST RA 1830 (Formerly: SOK SI)		3.0 ± 0.5	28	n/a	1	BTM 50	24
	20 L (Canister), 200 L (Drum), 1000 L (IBC)						
RENOCAST RA 1470 (Formerly: SOK BTM UP/4)	Odor-reduced and ready-to-use concrete release agent for all common types of formwork based on isoparaffin. Particularly well suited for pigmented concrete.	≤ 4.5	28	n/a	1	BTM 50	24
	20 L (Canister), 200 L (Drum), 1000 L (IBC)						

RENOCAST

Product name	Description	Visc. at 20 °C [mm²/s]	Flash point [°C]	Bio-degradability [% after 28 d]	Water pollu-tion category (German regulation)	GISCODE	Shelf life [months]
Solvent-based Concrete Release Agents for Precast Plants							
RENOCAST RA 1273 (Formerly: SOK U/K 105)	Ready-to-use concrete release agent with increased corrosion protection. Particularly well suited for e.g. TT ceilings.	≤ 4.5	28	n/a	1	BTM 50	24
RENOCAST RA 1293 (Formerly: SOK 2/K 105)		≤ 4.5	ca. 30	n/a	1	BTM 50	24
	20 L (Canister), 200 L (Drum), 1000 L (IBC)						
RENOCAST RA 1276 (Formerly: SOK U/K 115)	Ready-to-use concrete release agent with very strong corrosion protection for short-term use in case of acute corrosion problems.	≤ 4.5	ca. 32	n/a	1	BTM 50	24
	20 L (Canister), 200 L (Drum), 1000 L (IBC)						
Mineral oil-based Concrete Release Agents for Precast Plants							
RENOCAST RA 2360 (Formerly: SOK STG)	Ready-to-use concrete release agent for garage production as well as steel stop-off formwork elements for filigree ceiling production.	70.0 ± 1.0	> 140	n/a	1	BTM 10	24
	20 L (Canister), 200 L (Drum), 1000 L (IBC)						
RENOCAST RA 2930 (Formerly: SOK C/K 100)	Ready-to-use concrete release agent for all common formwork types with increased corrosion protection. Particu larly suitable for e.g. exposed concrete, filigree ceiling, slabs, beams, special elements.	≤ 5.5	64	n/a	1	BTM 30	24
RENOCAST RA 2830 (Formerly: SOK C/K LP)		4.5 ± 1.0	74	n/a	1	BTM 30	24
	20 L (Canister), 200 L (Drum), 1000 L (IBC)						
RENOCAST RA 2280 (Formerly: SOK BTM C 8)	Ready-to-use concrete release agent for all common types of formwork. Particu-larly well suited for e.g. exposed con-crete, slabs, beams, special elements.	≤ 7.0	64	n/a	1	BTM 30	24
	20 L (Canister), 200 L (Drum), 1000 L (IBC)						
RENOCAST RA 2935 (Formerly: SOK C/K 115)	Ready-to-use concrete release agent with very strong corrosion protection for short-term use in case of acute corrosion problems.	≤ 7.5	63	n/a	1	BTM 30	24
	20 L (Canister), 200 L (Drum), 1000 L (IBC)						

FUCHS Special Applications
Concrete Release Agents

Product name	Description	Visc. at 20 °C [mm²/s]	Flash point [°C]	Bio-degradability [% after 28 d]	Water pollu-tion category (German regulation)	GISCODE	Shelf life [months]
Concrete Release Agent Emulsions for Precast Plants							
RENOCAST RA 5075 AQUA (Formerly: SOK AQUA Z PLUS) Advanced Circular Technologies	Ready-to-use concrete release agent for all common types of formwork. Particu-larly well suited for e.g. exposed con-crete, slabs, beams, TT ceilings, special elements.	< 4.5	n/a	n/a	1	BTM 05	6
	20 L (Canister), 200 L (Drum), 1000 L (IBC)						
RENOCAST RA 5055 AQUA (Formerly: SOK AQUA 55 ES) Advanced Circular Technologies	Ready-to-use concrete release agent for all common types of formwork. Particularly well suited for e.g. garages, L-shaped stones, slabs, ceilings and walls.	< 4.5	n/a	n/a	1	BTM 05	6
	20 L (Canister), 200 L (Drum), 1000 L (IBC)						
RENOCAST RA 5001 AQUA (Formerly: SOK AQUA TB 1) Advanced Circular Technologies	Ready-to-use concrete release agent for all common types of formwork. Particularly well suited for tubbing production.	5.0 ± 0.5	n/a	n/a	1	BTM 05	6
	20 L (Canister), 200 L (Drum), 1000 L (IBC)						
RENOCAST RA 4810 AQUA (Formerly: SOK AQUA) Advanced Circular Technologies	Ready-to-use concrete release agent for all common types of formwork. Particularly well suited for e.g. ceilings and walls.	< 4.5	n/a	n/a	1	BTM 05	6
	20 L (Canister), 200 L (Drum), 1000 L (IBC)						
RENOCAST RA 4090 AQUA (Formerly: SOK AQUA G PLUS)	Ready-to-use concrete release agent for all common types of formwork. Particularly well suited for large pipes, ceilings and walls.	5.5 - 6.0	n/a	n/a	1	BTM 05	6
	20 L (Canister), 200 L (Drum), 1000 L (IBC)						
RENOCAST RA 4830 AQUA (Formerly: SOK AQUA KS)	Ready-to-use concrete release agent with increased corrosion protection. Particularly well suited for filigree ceiling production and shake compaction.	< 4.5	n/a	n/a	1	BTM 05	6
	20 L (Canister), 200 L (Drum), 1000 L (IBC)						
RENOCAST RA 4470 AQUA (Formerly: SOK AQUA HF)	Ready-to-use concrete release agent for all common types of formwork. Particu-larly well suited for e.g. slabs, beams, ceilings and walls.	< 4.5	n/a	n/a	1	BTM 05	6
	20 L (Canister), 200 L (Drum), 1000 L (IBC)						

RENOCAST

Product name	Description	Visc. at 20 °C [mm²/s]	Flash point [°C]	Bio-degradability [% after 28 d]	Water pollution category (German regulation)	GISCODE	Shelf life [months]
Ester oil-based Concrete Release Agents for Precast Plants							
RENOCAST RA 3107* (Formerly: SOK ECO 107) Advanced Circular Technologies	EU Ecolabel certified concrete release agent for e.g. ceilings and walls - ready to use.	45.0 ± 4.0	210	> 80	awg	BTM 10	24
	20 L (Canister), 200 L (Drum), 1000 L (IBC)						
RENOCAST RA 3911 (Formerly: SOK ECO 911) Advanced Circular Technologies	Label-free concrete release agent for spun concrete and the production of concrete sleepers produced with curing process - ready to use.	8.0 ± 1.0	175	n/a	1	BTM 10	24
	20 L (Canister), 200 L (Drum), 1000 L (IBC)						
RENOCAST RA 3840 (Formerly: SOK MULTITRENN) Advanced Circular Technologies	Blue colored concrete release agent especially for polystyrene stopp-off formwork elements e.g. in the production of filigree ceilings - ready to use.	49.0 - 59.0	208	n/a	1	BTM 10	24
	20 L (Canister), 200 L (Drum), 1000 L (IBC)						
RENOCAST RA 3904 (Formerly: PLANTO Schalungsoel S) Advanced Circular Technologies	Label-free concrete release agent for L-shaped stone production - ready to use.	7.3	190	n/a	1	BTM 10	24
	20 L (Canister), 200 L (Drum), 1000 L (IBC)						
RENOCAST RA 3105* (Formerly: PLANTO Schalungsoel-N) Advanced Circular Technologies	EU Ecolabel certified concrete release agent e.g. for ceiling and wall production - ready-for-use.	21.7	190	> 60	1	BTM 10	24
	20 L (Canister), 205 L (Drum), 1000 L (IBC)						

* EU Ecolabel

FUCHS Special Applications
Concrete Release Agents & Mixer Protection Agents

Product name	Description	Visc. at 20 °C [mm²/s]	Flash point [°C]	Bio-degradability [% after 28 d]	Water pollution category (German regulation)	GISCODE	Shelf life [months]
Pasty Formwork Waxes							
RENOCAST RA 3670 WAX (Formerly: SOK WAX ECO) Advanced Circular Technologies	Pasty ester oil-based concrete release agent wax with a stiff consistency for complex formwork elements, chamfer strips, etc. Particularly well suited for high outside temperatures.	n/a	n/a	n/a	awg	BTM 10	24
	9 kg (Bucket)						
RENOCAST RA 2650 WAX (Formerly: SOK WAX 1)	Pasty mineral oil-based concrete release agent wax with soft consistency for complex formwork elements, chamfer strips, etc.	n/a	n/a	n/a	1	BTM 10	24
	5 kg (Bucket), 15 kg (Bucket), 25 kg (Bucket)						
RENOCAST RA 3630 WAX (Formerly: SOK WAX ECO S) Advanced Circular Technologies	Pasty ester oil-based concrete release agents wax with a very soft consistency for door and window recesses as well as trowel cutting in filigree ceilings.	n/a	n/a	n/a	awg	BTM 10	24
	9 kg (Bucket)						
Concrete Release Agents for Immediate Demolding							
RENOCAST RA 2530 (Formerly: SOK BTM HU 3)	Mineral oil-based concrete release agent for universal use for immediate demolding processes like slatted floors, cable ducts or concrete sleepers etc. Suitable for all water-cement ratios.	6.3 ± 0.3	ca. 101	n/a	1	BTM 30	24
	20 L (Canister), 200 L (Drum), 1000 L (IBC)						
RENOCAST RA 2520 (Formerly: SOK BTM HU 2)	Mineral oil-based concrete release agent for universal use for immediate demolding processes like slatted floors, cable ducts or concrete sleepers etc. Particularly suitable for water-cement ratios < 0.41.	4.0 ± 0.4	ca. 101	n/a	1	BTM 30	24
	20 L (Canister), 200 L (Drum), 1000 L (IBC)						
RENOCAST RA 3210 (Formerly: SOK HU ECO) Advanced Circular Technologies	Label-free concrete release agent based on ester oils for universal use for immediate demolding processes like slatted floors, cable ducts or concrete sleepers etc. Suitable for all water-cement ratios.	7.8 ± 0.4	ca. 153	n/a	1	BTM 10	24
	20 L (Canister), 200 L (Drum), 1000 L (IBC)						

* EU Ecolabel

RENOCAST

Product name	Description	Visc. at 20 °C [mm²/s]	Flash point [°C]	Bio-degradability [% after 28 d]	Water pollution category (German regulation)	GISCODE	Shelf life [months]
Concrete Release Agents for Stone Production							
RENOCAST RA 5100 C (Formerly: SOK AQUA 100) Advanced Circular Technologies	Particularly economical ester oil-based concrete release agent concentrate for universal use in stone production. The mixing ratio can be individually adjusted from 1:1 to 1:5. Suitable for boards made of steel, plastic and wood.	14.0 - 17.5	n/a	n/a	1	BTM 05	9
	5 L (Canister), 10 L (Canister), 200 L (Drum), 1000 L (IBC)						
RENOCAST RA 4470 AQUA (Formerly: SOK AQUA HF)	Ready-for-use mineral oil-based concrete release emulsion with high release effect for stone production. Suitable for steel and plastic boards.	< 4.5	n/a	n/a	1	BTM 05	6
	20 L (Canister), 200 L (Drum), 1000 L (IBC)						
RENOCAST RA 4090 AQUA (Formerly: SOK AQUA G PLUS)	Ready-to-use mineral oil-based concrete release emulsion with very high release effect for stone production. Suitable for steel and plastic boards.	5.5 - 6.0	n/a	n/a	1	BTM 05	6
	200 L (Drum), 1000 L (IBC)						
Concrete Release Agents for Structural Engineering							
RENOCAST RA 2350 (Formerly: SOK BTM E)	Mineral oil-based structural release agent for universal use on the construction site - ready to use.	21.0 ± 2.5	145	n/a	1	BTM 20	24
	20 L (Canister), 200 L (Drum), 1000 L (IBC)						
RENOCAST RA 2072 (Formerly: SOK 72 S)	Mineral oil based concrete release agent especially for the use of rough cutted wooden formwork - ready to use.	23.0 ± 1.0	82	n/a	1	BTM 20	24
	20 L (Canister), 200 L (Drum), 1000 L (IBC)						
RENOCAST RA 3911 (Formerly: SOK ECO 911) Advanced Circular Technologies	Ester oil-based structural release agent for universal use on the construction site - ready to use.	8.0 - 1.0	175	n/a	1	BTM 10	24
	20 L (Canister), 200 L (Drum), 1000 L (IBC)						
RENOCAST RA 3105* (Formerly: PLANTO Schalungsoel N) Advanced Circular Technologies	EU Ecolabel certified concrete release agent for universal use on the construction site - ready-for-use.	21.7	190	> 60	1	BTM 10	24
	20 L (Canister), 205 L (Drum), 1000 L (IBC)						

FUCHS Special Applications

Concrete Release Agents & Mixer Protection Agents

Product name	Description	Visc. at 20 °C [mm²/s]	Flash point [°C]	Bio-degradability [% after 28 d]	Water pollution category (German regulation)	GISCODE	Shelf life [months]
Concrete Release Agents for Structural Engineering							
RENOCAST RA 5100 C (Formerly: SOK AQUA 100) Advanced Circular Technologies	Particularly economical concrete release agent concentrate based on ester oil for universal use on the construction site. The 10 L and 20 L canister are each supplied half-filled and are filled-up with water on site in a mixing ratio of 1:1.	14.0 - 17.5	n/a	n/a	1	BTM 05	9
	5 L (Canister), 10 L (Canister), 200 L (Drum), 1000 L (IBC)						
RENOCAST RA 4005 C (Formerly: SOK C 5)	Highly economical, water-free, mineral oil-based concrete release agent concentrate for universal use on the construction site. The 1 L bottle is mixed with water in a ratio of 1:4 on site in an empty 10 L canister and shaken for 30 seconds to create a stable emulsion.	80 ± 5	146	n/a	1	BTM 10	24
	1 L (Bottle)						
RENOCAST RA 4090 AQUA (Formerly: SOK AQUA G PLUS)	Ready-to-use mineral oil-based concrete release emulsion for universal use on the construction site.	5.5 - 6.0	n/a	n/a	1	BTM 05	6
	20 L (Canister), 200 L (Drum), 1000 L (IBC)						
RENOCAST RA 3904 (Formerly: PLANTO Schalungsoel-S) Advanced Circular Technologies	Particularly economical concrete release agent based on ester oils for universal use on the construction site – ready to use.	7.3	190	n/a	1	BTM 10	24
	20 L (Canister), 200 L (Drum), 1000 L (IBC)						

RENOCAST

Product name	Description	Visc. at 20 °C [mm²/s]	Flash point [°C]	Bio-degradability [% after 28 d]	Water pollution category (German regulation)	GISCODE	Shelf life [months]
Mixer Protection Agents							
RENOCAST MP 3480* (Formerly: BETONEX ECO) Advanced Circular Technologies	EU Ecolabel-certified mixer protection based on ester oil. Particularly well suited for concrete mixers, transport slides, concrete pumps. Reduces foam formation during the first concrete mixing.	45.0	217	> 80	awg	BTM 10	24
	20 L (Canister), 200 L (Drum), 1000 L (IBC)						
RENOCAST MP 2810 (Formerly: BETONEX E)	Universally applicable mixer protection based on mineral oil. Particularly well suited for concrete mixers, transport slides, concrete pumps, etc.	21.0 ± 2.5	145	n/a	1	BTM 20	24
RENOCAST MP 2870 (Formerly: BETONEX SP-1)		19.0 ± 23.5	125	n/a	1	BTM 30	24
RENOCAST MP 2850 (Formerly: BETONEX PLUS)		22.0 ± 1.0	160	n/a	1	BTM 20	24
	20 L (Canister), 200 L (Drum), 1000 L (IBC)						

* EU Ecolabel

FUCHS Special Applications

Asphalt Release Agents & Bitumen Cleaners



Product name	Description	Visc. at 20 °C [mm²/s]	Flash point [°C]	Bio-degradability [% after 28 d]	Water pollution category (German regulation)	GISCODE	Shelf life [months]
Asphalt Release Agents & Bitumen Cleaners							
RENOCAST AP 2410 ***NEW*** Advanced Circular Technologies	Asphalt release agent with a particularly high flash point, specially designed for asphalt mixing plants, based on high-quality re-refined oils and ester oils.	47	207	n/a	1	n/a	24
	20 L (Canister), 200 L (Drum), 1000 L (IBC)						
RENOCAST AP 2001 (Formerly: BITEEREX 1)	Universally applicable mineral oil-based asphalt release agent. Particularly well suited for e.g. asphalt mixers, transport trucks and road pavers - ready to use. Test report of the Technical University of Kaiserslautern confirms compatibility with asphalt.	21.0 ± 2.5	145	n/a	1	n/a	24
	20 L (Canister), 200 L (Drum), 1000 L (IBC)						
RENOCAST AP 3485* (Formerly: BITEEREX ECO) Advanced Circular Technologies	EU Ecolabel-certified ester oil-based asphalt release agent. Particularly well suited for asphalt mixers, asphalt trucks and road pavers.	ca. 45	217	> 70	awg	n/a	24
	20 L (Canister), 200 L (Drum), 1000 L (IBC)						

* EU Ecolabel

RENOCAST

Product name	Description	Visc. at 20 °C [mm²/s]	Flash point [°C]	Bio-degradability [% after 28 d]	Water pollution category (German regulation)	GISCODE	Shelf life [months]
Asphalt Release Agents & Bitumen Cleaners							
RENOCAST AP 2690 (Formerly: BITEEREX 2690) Advanced Circular Technologies	Particularly low-viscosity asphalt release agent especially for rubber wheeled road rollers and asphalt feeder conveyor belts - ready-for-use.	11.8 ± 1.0	110	n/a	1	n/a	24
	20 L (Canister), 200 L (Drum), 1000 L (IBC)						
RENOCAST AP 4815 AQUA (Formerly: BITEEREX AQUA) Advanced Circular Technologies	Ready-to-use asphalt release agent emulsion for loading areas of asphalt trucks, conveyor belts of asphalt feeders and rubber-wheeled road rollers.	< 4.5	n/a	n/a	1	n/a	6
	20 L (Canister), 200 L (Drum), 1000 L (IBC)						
RENOCAST AP 5150 C (Formerly: BITEEREX C 1) Advanced Circular Technologies	Particularly economical asphalt release agent concentrate for loading areas of asphalt trucks, conveyor belts of asphalt feeders and rubber-wheeled road rollers. The 20 L small canister is delivered half-filled and is filled-up with water on site in a mixing ratio of 1:1.	14.0 - 17.5	n/a	n/a	1	n/a	9
	10 L (Canister), 200 L (Drum), 1000 L (IBC)						
RENOCAST CL 1020 (Formerly: BITEEREX CLEANER)	Solvent-based cleaner in a liquid form for surfaces contaminated with bitumen or asphalt.	1.7 - 2.4	ca. 61	n/a	1	n/a	24
	20 L (Canister)						
RENOCAST CL 1020 SPRAY (Formerly: BITEEREX CLEANER SPRAY)	Solvent-based cleaner as a spray for surfaces contaminated with bitumen and asphalt.	n/a	> 61	n/a	1	n/a	36
	400 ml (Spray can)						

FUCHS Special Applications
Coatings



Product name	Description	Thinner	pH Value	Color	Temperature range [°C]	Coefficient of friction[1]	Applications
			HMP Films				
GLEITMO 300 (also available as GLEITMO 300 SPRAY)	Solvent-based universal lubricant for industry and household use	–	–	colorless, transparent	-40/50	0.08	For calibration, for switches and mechanisms of any kind. For plastics, elastomers, zippers, screws etc.
	1 L (Bottle), 5 L (Canister), 25 L (Can), 400 ml (Spray can)						
GLEITMO 602	Dry film lubricant for bulk part coating	Water	8.5 - 9.5	colorless, transparent	-40/80	0.13 - 0.15	Nuts and bolts in the automotive industry. To obtain friction coefficients with small deviation at an elevated level of friction coefficients.
	1 kg (Bottle), 25 kg (Can), 150 kg (Drum)						
GLEITMO 605	Dry film lubricant for bulk part coating	Water	8.5 - 9.5	colorless, shiny	-40/110	0.11 - 0.12	Fasteners such as screws and nuts in the automotive industry with friction value range according to VDA as well as chipboard screws, sheet metal screws, clamping screws, union nuts.
	1 kg (Bottle), 25 kg (Can), 150 kg (Drum), 1000 kg (IBC)						

1 – Screw test after DIN EN ISO 16047 with M12 8.8 Zn

GLEITMO

Product name	Description	Thinner	pH Value	Color	Temperature range [°C]	Coefficient of friction[1]	Applications
HMP Films							
GLEITMO 615	Dry film lubricant for bulk part coating	Water	5.0 - 6.0	colorless, matt	-40/110	0.09	To achieve low coefficients of friction in screw connections, avoid seizure in stainless steel screw connections, achieve low forming torques in thread-forming screws.
	1 kg (Bottle), 25 kg (Can), 150 kg (Drum)						
GLEITMO 625	Dry film lubricant for bulk part coating	Water	5.0 - 6.0	colorless, matt	-40/110	0.09	
	1 kg (Bottle), 5 kg (Bucket), 25 kg (Can), 150 kg (Drum)						
GLEITMO 627	Dry film lubricant for bulk part coating	Water	5.0 - 6.0	colorless, matt	-40/110	0.09	
	1 kg (Bottle), 25 kg (Can), 150 kg (Drum), 1000 kg (IBC)						
GLEITMO HMP 8040	Dry film lubricant for bulk part coating	Water	5.0 - 6.0	colorless, matt	-40/110	0.09	To achieve low coefficients of friction in screw connections, achieve low forming torques in thread-forming screws.
	1000 kg (IBC)						
GLEITMO 2345V	Dry film lubricant	Water	8.5 - 9.5	colorless, matt	-40/70	–	Assembly lubrication of elastomers (O-rings, profile gaskets), metal sleeves and bolts, lubricants for chipless metal forming.
	1 kg (Tin), 5 kg (Bucket), 25 kg (Can), 110 kg (Drum)						
GLEITMO HMP 8420 NF	Dry film lubricant with anti-corrosion sealer for bulk part coating	Water	8.5 - 9.5	colorless, shiny	-40/110	0.10 - 0.11	For screws and nuts in the automotive industry. To achieve very uniform friction values according to VDA requirement. Excellent corrosion protection on zinc alloy coatings.
	1 kg (Bottle), 25 kg (Can), 150 kg (Drum)						
GLEITMO HMP 9020	MoS_2-containing dry film for bulk part coating	Water	n/a	dark grey-black	-70/350	0.12 - 0.14 (K-value M20)	Coating of bolts and nuts. Can be used on hot-dip galvanized nuts to achieve the friction values required in DIN 14399.
	1 kg (Flasche), 25 kg (Kanne), 150 kg (Fass)						
GLEITMO HMP 9020 K	MoS_2-containing dry film for bulk part coating	Water	8.0 - 8.6	dark grey-black	-70/250	0.14 - 0.15 (K-value M20)	Coating of bolts and nuts. Can be used on hot-dip galvanized nuts to achieve the friction values required in DIN 14399. Very good corrosion protection properties.
	1 kg (Bottle), 25 kg (Can), 150 kg (Drum)						
GLEITMO HMP 9030	MoS_2-containing dry film for bulk part coating	Water	n/a	dark grey-black	-70/200	0.12 - 0.13 (K-value M20)	Coating of bolts and nuts. Can be used on hot-dip galvanized nuts to achieve the friction values required in DIN 14399. Very good corrosion protection properties. New development with very good moisture resistance.
	150 kg (Drum)						

FUCHS Special Applications
Coatings

Product name	Description	Thinner	Solids	Binder	Color	Temperature range [°C]	Applications
Solid Film Lubricants							
GLEITMO 900 (also available as GLEITMO 900 SPRAY)	Air drying molybdenum disulfide solid film lubricant	META-BLANC V901	MoS_2, Graphite	inorganic	dark grey-black	-180/400	Generally used at low sliding speeds and high loads. High temperature resistance. Application in spherical bearings, screws and nuts, machine parts run-in.
	1 L (Tin), 5 L (Bucket), 400 ml (Spray can)						
GLEITMO 905	Air drying water based molybdenum disulfide solid film lubricant	Water	MoS_2, Graphite	inorganic	dark grey-black	-180/400	Generally used at low sliding speeds and high loads. High temperature resistance. Water-based alternative to GLEITMO 900
	1 kg (Bottle)						
GLEITMO 920	Air drying molybdenum disulfide solid film lubricant	GLEITMO 920V	MoS_2, Graphite	organic	dark grey-black	-180/250	Generally used at low sliding speeds and high loads. Can be used in combination with oils and greases. Dry lubrication of screw bolts, spindles, slide rails, adjusting screws and adjusting mechanisms.
	1 kg (Tin), 5 kg (Bucket)						
GLEITMO 960 (also available as GLEITMO 961 SPRAY)	Air drying graphite solid film lubricant	META-BLANC V901	Graphite	inorganic	dark grey-black	-180/350	For dry lubrication where oils and greases cannot be used due to excessively high temperatures. For forming ferritic and austenitic materials (e.g. cold extrusion, reducing). Can be used up to 600 °C for short periods.
	1 L (Tin), 5 L (Bucket), 40 ml (Spray can)						
GLEITMO 980 (also available as GLEITMO 980 SPRAY)	Air drying PTFE solid film lubricant	META-BLANC V901	PTFE	inorganic	colorless, matt	-180/250	Dry lubrication of a wide variety of material combinations (metals, plastics, rubber, wood, etc.). Clean sliding layer for goods at risk of contamination, initial lubrication of plastic injection-molded parts. Assembly facilitation of seals.
	1 L (Tin), 5 L (Canister), 400 ml (Spray can)						
GLEITMO 2332V	High temperature resistant water based solid film lubricant	Water	Special HT-Combination	inorganic-organic	dark grey	-180/1200	Especially for coating bolts and nuts for the high temperature range (e.g. exhaust system). Produces reproducible friction values, avoids seizure and enables screw connections to be loosened after thermal stress.
	1 kg (Bottle), 25 kg (Hobbock)						
GLEITMO SFL 9025	Water based molybdenum disulfide solid film lubricant	Water	MoS_2, Graphite	organic	dark grey-black	-180/250	Dry lubrication of screws and nuts (stainless steel, aluminum), prevention of seizure (stainless steel), dry lubrication of slide rails, joints and bolts as well as running-in lubrication of highly loaded components.
	1 kg (Bottle), 5 kg (Bucket), 25 kg (Hobbock), 180 kg (Drum)						

GLEITMO

Product name	Description	Thinner	Solids	Binder	Color	Temperature range [°C]	Applications
Solid Film Lubricants							
GLEITMO SFL 9065	Thermosetting PTFE solid film lubricant	Water	PTFE	organic	dark grey-black	-180/250	Creates an oil- and solvent-resistant sliding layer with low coefficient of friction. For lifetime lubrication of components with high wear resistance requirements in combination with good corrosion protection. Suitable for coating bulk parts (e.g. bolts, screws, disc springs, etc.) .
	1 kg (Bottle)						
GLEITMO SFL 9070	Air drying PTFE solid film lubricant	Water	Fluorpolymeres	organic	colorless milky	-70/180	For dry lubrication of a wide variety of material pairings, in particular plastics, rubber and leather with or among each other. Particularly for preventing squeaking noises in plastic pairings in automotive interiors.
	30 g (Dabomatic), 1 kg (Bottle), 5 kg (Bucket)						
GLEITMO SFL 9085	Air drying water based PTFE solid film lubricant	Water	PTFE	organic	colorless matt	-180/250	For dry lubrication of a wide variety of material pairings, such as metals, plastics, rubber and leather with or among each other. Enables smooth running, wear protection and the prevention of squeaking noises in plastic pairings in automotive interiors. For the lubrication of connecting elements as well as facilitating the assembly of elastomer seals.
	1 kg (Bottle), 5 kg (Canister), 25 kg (Hobbock)						
GLEITMO SFL 9090 NEW	Air-drying water based polymer solid film lubricant, PFAS-free	Water	Polymeres	organic	colorless matt	-70/150	
	1 kg (Bottle), 5 kg (Canister)						
GLEITMO SFL 9524	Rapid air drying molybdenum disulfide solid film lubricant	Alcohols, e.g. ethanol	MoS_2	organic	dark grey	-70/300	For run-in improvement of metallic components. GLEITMO SFL 9524 produces a very fast drying, firmly adhering dry lubricant coating with good abrasion resistance and a wide temperature application range. For coating rotors of claw- and rotary lobe pumps.
	5 kg (Bucket)						
GLEITMO SFL 9540	Thermosetting molybdenum disulfide solid film lubricant	GLEITMO 9540 V	MoS_2, Graphite	organic	dark grey-black	-180/300	For dry lubrication of gears, bearing bushes, bearing bolts, rollers, spindles, axles for sliding bearings, sliding parts at high temperatures.
	1 kg (Tin), 5 kg (Bucket)						
GLEITMO SFL 9550	Thermosetting molybdenum disulfide solid film lubricant	GLEITMO 950 V	MoS_2, Graphite	organic	dark grey-black	-180/300	Run-in improvement as well as lifetime lubrication of components with high demands on wear resistance and corrosion protection. Application for bolts, levers, door lock parts etc.
	1 kg (Tin), 5 kg (Bucket)						
GLEITMO SFL 9560	Thermosetting, white PTFE solid film lubricant	GLEITMO 950 V	PTFE	organic	white	-70/130	Lifetime lubrication on metallic materials at medium and high pressures, slow sliding speed and for emergency lubrication. Good corrosion protection. Application for adjusting mechanisms (spindles and slide rails) or machine elements.
	1 kg (Tin)						

FUCHS Special Applications
Coatings

Product name	Description	Thinner	Solids	Binder	Color	Temperature range [°C]	Applications
Solid Film Lubricants							
GLEITMO SFL 9563	Thermosetting PTFE solid film lubricant with molybdenum disulfide	GLEITMO 950 V	PTFE, MoS_2	organic	dark grey-black	-70/180	Lifetime lubrication on metallic materials at medium and high pressures and slow sliding speeds as well as for running-in lubrication on highly loaded components. Good corrosion protection. For example, lubrication of adjustment mechanisms (levers, spindles and slide rails) or machine elements.
	1 kg (Tin), 5 kg (Bucket), 30 kg (Hobbock)						
GLEITMO SFL 9590 NEW	Thermosetting solid film lubricant with polymers and molybdenum disulfide, PFAS free	GLEITMO 950 V	Polymer, MoS_2	organic	dark grey-black	-70/180	
	1 kg (Tin), 5 kg (Bucket)						
GLEITMO SFL 9680 K1 BluEV TECHNOLOGY	Three-component solvent-based solid film lubricant - main component	META-BLANC V901	Poly-siloxane	inorganic-organic	colorless transparent	-70/180	Dry lubrication of elastomers. Significantly facilitates the assembly of components due to very low assembly forces.
	1 kg (Bottle), 5 L (Bucket), 30 L (Hobbock)						
GLEITMO SFL 9680 K2	Crosslinking component for three-component solid film lubricant	META-BLANC V901	–	–	colorless transparent	-70/180	
	1 L (Bottle)						
GLEITMO SFL 9680 K3	Curing catalyst for three-component solid film lubricant	META-BLANC V901	–	–	–	-70/180	
	1 L (Can)						
GLEITMO SFL 9680 K3 TF	Curing catalyst for three-component solid film lubricant, tin-free	META-BLANC V901	–	–	–	-70/180	
	100 ml (Bottle), 500 ml (Bottle)						
GLEITMO RLC 3000	Thermosetting PTFE solid film lubricant	Water	PTFE	organic	colorless matt	-70/250	Dry lubrication of a wide variety of material combinations of elastomers, plastics, metals
	1 kg (Bottle), 5 kg (Bucket)						

GLEITMO

Product name	Description	Thinner	Solids	Binder	Color	Temperature range [°C]	Applications
Solid Film Lubricants							
GLEITMO RLC 3100 K1	Two-component PTFE solid film lubricant, main component	Water	PTFE	organic	colorless matt	-70/250	For dry lubrication of elastomers and polymers. Dyeable with GLEITMO COLOUR products.
	1 kg (Bottle), 5 kg (Bucket), 25 kg (Hobbock)						
GLEITMO RLC 3100 K2	Crosslinking component for two-component solid film lubricants GLEITMO RLC 3100 and GLEITMO RLC 5100	Water	–	–	–	–	
	1 kg (Bottle)						
GLEITMO RLC 5100 K1 **NEW**	Two-component polymer solid film lubricant, PFAS free, main component	Water	Polymers	organic	colorless matt	-70/150	
	1 kg (Bottle), 5 kg (Bucket)						
GLEITMO RLC 4000	Water-based thermosetting polysiloxane solid film lubricant	Water	Polysiloxane	inorganic-organic	colorless transparent	-70/250	Dry lubrication of elastomers. Significantly facilitates the assembly of components due to very low assembly forces.
	1 kg (Bottle), 5 kg (Bucket), 25 kg (Hobbock)						
GLEITMO RLC 4300	Water-based PTFE solid film lubricant	Water	PTFE	organic	colorless matt	-70/180	Solid film lubricant concentrate with outstanding lubricating performance for plastics, elastomers and metals. Facilitates the assembly of hard-to-move plug-in connections.
	1 kg (Bottle), 5 kg (PE-Canister)						

FUCHS Special Applications
Coatings

Product name	Description	Carrier	Color	Applications
		Additives for Solid Film Lubricants		
GLEITMO 920 V	Thinner for solid film lubricants	Solvent	colorless	See PI of respective solid film lubricant
	5 L (Canister)			
GLEITMO 950 V	Thinner for solid film lubricants	Solvent	colorless	See PI of respective solid film lubricant
	1 L (Can), 5 L (Canister)			
GLEITMO 9540 V	Thinner for solid film lubricants	Solvent	colorless	See PI of respective solid film lubricant
	1 L (Bottle), 5 L (Canister)			
METABLANC V 901	Thinner for solid film lubricants	Solvent	colorless	See PI of respective solid film lubricant
	5 L (Canister), 200 L (Drum)			
GLEITMO 1992 V	Defoamer	Water	–	For foam reduction in GLEITMO Coating Baths
	1 kg (Bottle), 5 kg (Bucket)			
GLEITMO HMP Cleaner	Cleaner for dry HMP films	Water	colorless	Removal of GLEITMO 605, 615 and other GLEITMO films
	1 kg (Bottle), 5 kg (Bucket), 25 kg (Can)			
GLEITMO Colour BL 01	Black dye concentrate for water-based solid film lubricants	Water	black	Coloring of GLEITMO water-based solid film lubricants (e.g. GLEITMO RLC 3100, GLEITMO HMP 8420 NF)
	1 kg (Bottle)			
GLEITMO Colour BU 01	Blue dye concentrate for water-based solid film lubricants	Water	blue	Coloring of GLEITMO RLC 3100
	1 kg (Bottle)			
GLEITMO Colour GN 01	Green dye concentrate for water-based solid film lubricants	Water	green	Coloring of GLEITMO RLC 3100
	1 kg (Bottle)			
GLEITMO Colour RD 01	Red dye concentrate for water-based solid film lubricants	Water	red	Coloring of GLEITMO RLC 3100
	1 kg (Bottle)			
GLEITMO Colour WH 01	White dye concentrate for water-based solid film lubricants	Water	white	Coloring of GLEITMO RLC 3100
	1 kg (Bottle)			
GLEITMO Colour YE 01	Yellow dye concentrate for water-based solid film lubricants	Water	yellow	Coloring of GLEITMO RLC 3100
	1 kg (Bottle)			
UV-Verstärker-Konzentrat	Additive to enhance UV activity	Water	yellowish	Addition to water-based GLEITMO films (e.g. GLEITMO 605, 615, etc.) to improve visibility under UV light
	1 kg (Bottle)			

GLEITMO

Product name	Description	Carrier	Color	Applications
Additives for Solid Film Lubricants				
Farbkonzentrat blau	Blue dye for water-based dry film products	Water	blue	Addition to water-based GLEITMO films (e.g. GLEITMO 605, 615, etc.) produces a translucent blue film as a coating verification
	1 kg (Bottle)			
Farbkonzentrat gelb	Yellow dye for water-based dry film products	Water	yellow	Addition to water-based GLEITMO films (e.g. GLEITMO 605, 615, etc.) produces a translucent yellow film as a coating verification
	1 kg (Bottle)			

FUCHS Special Applications
Coatings



Product name	Description	Dyn. visc. at 20 °C [mPas]	Color	Applications
		Refractory Industry		
GLEITMO SRC 900	Coating for ceramic, refractory materials	> 15000	grey-black	For application by brush, sponge or roller. Fills superficial porosities of ceramic materials and adjusts surface irregularities. Improves the sliding behaviour of ceramic slide plates used in sliding valve systems. Suitable for the use on any ceramic product versions and combinations.
	1 kg (Tin), 4 kg (Bucket), 20 kg (Hobbock)			
GLEITMO SRC 900/50	Coating for ceramic, refractory materials	n/a	grey-black	For application by brush, sponge or roller. Adjusts small surface roughnesses and improves the sliding behavior of ceramic slide plates used in sliding valve systems. Suitable for the use on any ceramic product version and combination.
	5 kg (Bucket)			
GLEITMO SRC 919	Coating for ceramic, refractory materials	> 15000	grey-black	For application by brush, sponge or roller. Reduces the surface porosity and adjusts surface imperfections. Improves the sliding behavior of the ceramic slide plates used in mechanical sliding valve systems. Suitable for the use on any ceramic product version and combination.
	1 kg (Tin), 4 kg (Bucket), 20 kg (Hobbock)			
GLEITMO SRC 930	Coating for ceramic materials and mold release agent	500 - 1000	grey-black	Coating agent for spray application. Suitable for use on refractory materials in the steel industry and as a release agent in the nonferrous casting industry. Shows low friction and reduces the surface porosity of ceramics. Good lubricity, high abrasion resistance and oxidation resistance.
	1 kg (Tin), 4 kg (Bucket), 12,5 kg (Canister)			

GLEITMO

Product name	Description	Dyn. visc. at 20 °C [mPas]	Color	Applications
Refractory Industry				
GLEITMO SRC 942	Coating for ceramic, refractory materials	n/a	grey-black	Pasty coating agent for application with scraper or spatula. Reduces the surface porosity of ceramic surfaces and fills surface imperfections effectively. Based on its reduced shrinking effect it is especially suitable for recycled slide plates and as primer coat prior to a subsequent solid lubricant coating.
	4 kg (Bucket)			
GLEITMO SRC 959	Release agent for casting molds	n/a	cream colored	Non-curing liquid emulsion, designed for the use as a mold release agent on wooden, laminate, plastic, metal and composite-material molds. Can be used in combination with any conventional refractory material, binding agent and filler.
	18 kg (Hobbock)			
GLEITMO SRC 994	Spray coating for refractory surfaces	400 - 800	grey-black	Specially designed for spraying on hot surfaces. Suitable as a release agent for mortar release, slide nozzle links, joint compound surfaces, and as a spray guard for mechanical aggregate parts.
	1 kg (Tin), 4 kg (Bucket), 12,5 kg (Canister), 11 x 570 g (Tube + Cleaner)			
GLEITMO SRC 749	Release and lubricant coating for casting molds in alcoholic solvent	8000 - 10000	grey-black	Reduces adhesion and friction between steel and mold surface. Application only to the cold inner surface of the mold with a brush or roller before starting the casting process.
	4 kg (Bucket), 180 kg (Drum)			
GLEITMO SRC 750	Release and lubricant coating for casting molds	1000 - 3500	grey-black	Primarily used as a casting release agent by direct application to the inner surfaces of the casting mold. Forms a continuous dry film on the surface. Can be used as a starting aid for the dummy bar in continuous casting.
	4 kg (Bucket), 20 kg (Hobbock)			
GLEITMO SRC 783	Mold lubricant for continuous casting plants	n/a	black	Pasty solid lubricant for application with brush, roller or sponge. Is used to pre-treat molds of continuous casting plants in the iron and steel industry for an initial protection before or during a casting sequence.
	12.5 kg (Bucket)			

FUCHS Special Applications
NYE LUBRICANTS



Nye Lubricants Inc. has been part of the FUCHS Group since 2020. Since then, the FUCHS portfolio of lubricants for special applications has been strengthened by the US company's synthetic high-performance lubricants. Nye Lubricants is a leader in the innovation, formulation and manufacture of synthetic lubricants for special applications. These are used, for example, in electrical devices, in medical technology, in clean room applications and in the manufacture of semiconductors. Explore our full range and find the perfect solution for your specific requirements.

Product name	Thickener Base oil	NLGI grade	Base oil visc. at 40 °C [mm²/s]	Temperature range [°C]	Approvals, recommendations	Main application area
Vacuum / Clean Room						
NYETORR 5200	PTFE / MAC	1	108	-45 / +150	–	A soft, PTFE thickened, medium viscosity cyclopentane grease intended for high vacuum, clean room applications and semiconductor manufacturing equipment. Benefits include very low vapor pressure.
	10 cc (White Syringe), 30 cc (White Syringe), 0.055 kg (EFD Syringe), 500 g (Tin)					
NYETORR 6200	PTFE / MAC	1	108	-45 / +150	–	A soft, PTFE thickened, medium viscosity cyclopentane grease intended for high vacuum, clean room applications and semiconductor manufacturing equipment. Benefits include superior outgassing and anti-wear performance.
	0.01 kg (White Syringe), 500 g (Tin)					
NYETORR 6350EL	PTFE / PFPE	2	186	-80 / +250	–	A PTFE thickened, medium viscosity, perfluoropolyether grease intended for high vacuum and clean room applications in semiconductor manufacturing. Benefits include very low vapor pressure and excellent wear protection
	30 g (White Syringe), 50 g (Tin)					
NYETORR 6200-FL	PTFE / MAC	–	108	-45 / +150	–	A very soft, PTFE thickened, medium viscosity cyclopentane grease intended for high vacuum and clean room applications and semiconductor manufacturing equipment. Benefits include ultra low vapor pressure and torque.
	10 cc (White Syringe), 0,03 kg (Syringe)					
NYETORR 6370EL	PTFE / PFPE	2	456	-90 / +250	–	A PTFE thickened, heavy viscosity, perfluoropolyether grease intended for high vacuum and clean room applications in semiconductor manufacturing. Benefits include very low vapor pressure and excellent wear protection.
	0.01 kg (White Syringe)					

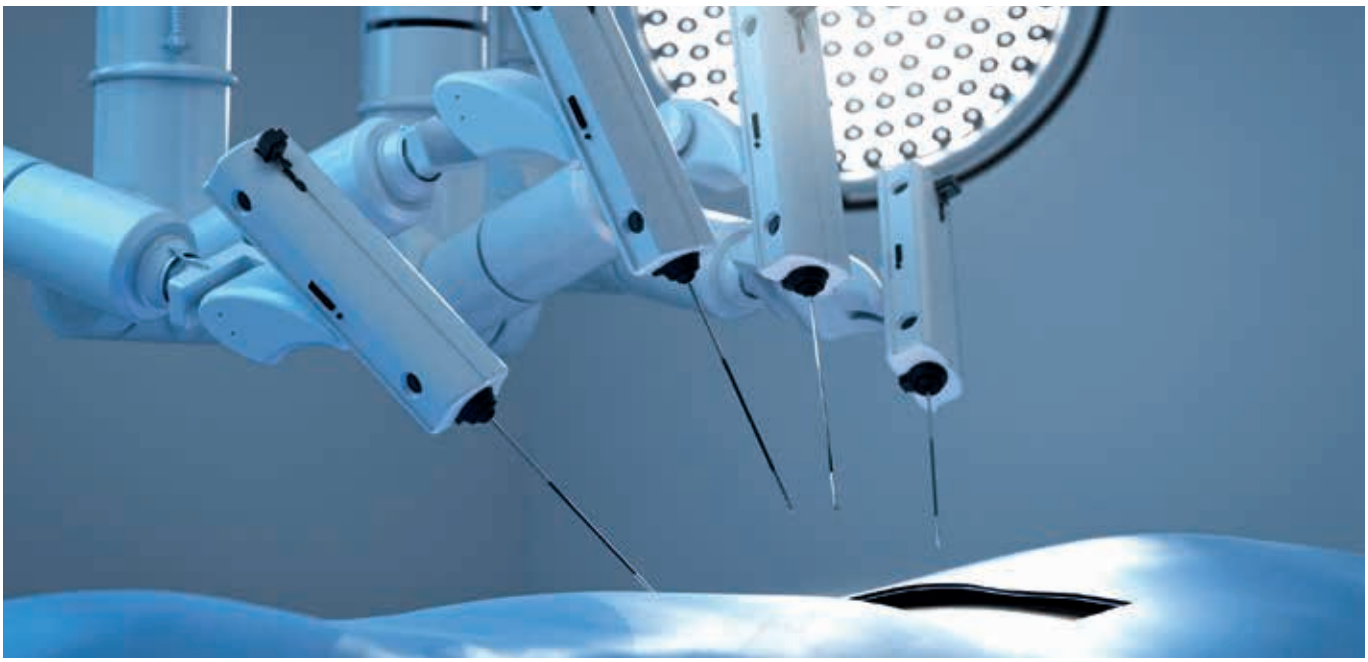
Product name	Thickener Base oil	NLGI grade	Base oil visc. at 40 °C [mm²/s]	Tempe-rature range [°C]	Approvals, recommenda-tions	Main application area
Vacuum / Clean Room						
NYETORR 6201	MAC	–	108	-45 / +150	–	A medium viscosity, multiply-alkylated cyclopentane oil intended for precision applications or high vacuum environments.
	30 ml (Bottle)					
NYETORR 5300XP	PTFE / PFPE	2	140	-65 / +200	–	A PTFE thickened, heavy viscosity, perfluoropolyether grease intended for high vacuum and clean room applications and semiconductor manufacturing equipment. Benefits include very low vapor pressure and outgassing
	50 g (Tin)					
NYETORR 5201	MAC	–	108	-45 / +125	–	A medium viscosity, cyclopentane oil intended for high vacuum and clean room applications and semiconductor manufacturing equipment. Benefits include very low vapor pressure.
	30 cc (Glas Vial)					
NYETORR 6300	PTFE / PFPE	2	186.8	-65 / +250	–	A PTFE thickened, heavy viscosity, perfluoropolyether grease intended for high vacuum and clean room applications and semiconductor manufacturing equipment. Benefits include very low vapor pressure.
	30 cc (Syringe)					
NYETORR 6301	PFPE	–	186.8	-75 / +250	–	A heavy viscosity perfluoropolyether oil intended for high vacuum and clean room applications.
	30 ml (Bottle)					
NYETORR 6300S	PTFE / PFPE	1	188.3	-75 / +250	–	A PTFE thickened, heavy viscosity, perfluoropolyether grease intended for high vacuum and clean room applications and semiconductor manufacturing equipment. Benefits include very low vapor pressure.
	500 g (Tin)					
NYETORR 5300	PTFE / PFPE	1,5	140	-65 / +250	–	A PTFE thickened, heavy viscosity, perfluoropolyether grease intended for high vacuum and clean room applications and semiconductor manufacturing equipment. Benefits include very low vapor pressure.
	30 cc (White Syringe)					
SYNTHETIC OIL 2001	MAC	–	106.7	-45 / +125	–	A multiply alkylated cyclopentane oil intended for bearings, disk drives. Fortified for reduced friction and ultrafiltered for precision applications.
	30 ml (Bottle), 60 ml (Bottle)					
SYNTHETIC OIL 2001A	MAC	–	108	-45 / +125	–	A medium viscosity, multiply-alkylated cyclopentane oil intended for precision applications or high vacuum environments.
	30 ml (Bottle), 125 ml (Bottle)					
NYEVAC 9724	PTFE / Ester	0	61	-40 / +150	–	A very soft PTFE thickened, polyolester grease originally developed for use in turbo-molecular pumps.
	0.055 kg (Clear Syringe), 135 g (EFD Cartridge)					

PTFE: Polytetrafluorethylene; MAC: multiply-alkylated Cyclopentane; PFPE: Perfluoropolyether; PAO: Polyalphaolefine; PAO-AN: Polyalphaolefine - alkylated Naphtalene

FUCHS Special Applications
NYE LUBRICANTS

Product name	Thickener Base oil	NLGI grade	Base oil visc. at 40 °C [mm²/s]	Tempe-rature range [°C]	Approvals, recommenda-tions	Main application area
			Vacuum / Clean Room			
NYEVAC 9721	Lithium / Ester	–	149	-40 / +150	–	A lithium soap thickened, light viscosity, polyolester grease intended for vacuum pumps and high speed bearings. Benefits include low evaporation.
	100 g (Tube)					
NYEVAC 9720	Ester	–	61	-40 / +150	–	A light viscosity polyolester oil originally developed for use in turbo-molecular pumps. Benefits include low out-gassing.
	1 L (Bottle)					
NYECLEAN 5057	PTFE / PFPE	2	192	-50 / +250	–	A fluorinated grease intended for use in semiconductor industry, robotics and vacuum applications. Specifically formulated for bearings exposed to high temperatures and chemical stress.
	30 cc (Syringe), 1 kg (Tin)					
RHEOLUBE 2000	Sodium / MAC	2	110	-45 / +125	–	A sodium complex soap thickened, medium viscosity, multiply-alkylated cyclopentane grease intended for instruments and bearings and vacuum applications.
	25 g (Syringe), 25 g (Tube), 50 g (Tube), 100 g (Tube)					
RHEOLUBE 1000	Sodium / MAC	2	56	-50 / +150	–	A sodium complex soap thickened, low viscosity, multiply-alkylated cyclopentane grease intended for instruments and bearings and vacuum applications.
	0.03 kg (Syringe)					

PTFE: Polytetrafluorethylene; MAC: multiply-alkylated Cyclopentane; PFPE: Perfluoropolyether; PAO: Polyalphaolefine; PAO-AN: Polyalphaolefine - alkylated Naphtalene



Product name	Thickener Base oil	NLGI grade	Base oil visc. at 40 °C [mm²/s]	Tempe-rature range [°C]	Approvals, recommenda-tions	Main application area
Medical Technology						
NYEMED 7325	PTFE / Silikon	2.5	–	-40 / +200	Biocompatibility evaluated against ISO 10993-5, 10993-10, 10993-11	A UV-dyed, silicone-based grease with a narrow viscosity specification, appropriate for both motion control and lubrication in medical applications.
	0.03 kg (Syringe)					
NYEMED 7560	Silica / Hydro-carbon	2	–	-40 / +120	Biocompatibility evaluated against ISO 10993-5, 10993-10 and 10993-11	A multi-purpose UV-dyed, synthetic hydrocarbon grease that is proven to protect electrical contacts and reduce mating force in connectors.
	0.03 kg (Syringe)					
NYEMED 7630	Polyurea / Hydro-carbon	2	–	-50 / +175	Biocompatibility evaluated against 10993-5, 10993-10 and 10993-11	A paste-like, synthetic hydrocarbon grease. Benefits include corrosion protection and wear reduction for sliding and rolling metal components, even at high temperatures and speeds.
	30 cc (Syringe), 775 g (Tin)					
NYEMED 7571	Melamine Cyanurate / PFPE	2	–	-70 / +225	Biocompatibility evaluated against ISO 10993-5, 10993-10 and 10993-11	A very smooth, paste-like grease which provides lubricity and environmental protection for both plastic and metal substrates, including electrical contacts and connectors.
	50 g (Syringe)					

FUCHS Special Applications
NYE LUBRICANTS

Product name	Thickener Base oil	NLGI grade	Base oil visc. at 40 °C [mm²/s]	Temperature range [°C]	Approvals, recommendations	Main application area
Medical Technology						
NYEMED 7471	PFPE	–	–	-50 / +250	Biocompatibility evaluated against 10993-5, 10993-10 and 10993-11	A completely fluorinated, inert fluid, exhibiting low solubility in most materials and liquids encountered in the medical industry.
	60 ml (Bottle)					
NYEMED 7477	PTFE / PFPE	–	–	-50 / +250	Biocompatibility evaluated against ISO 10993-5, 10993-10 and 10993-11	A completely fluorinated, inert lubricating grease with broad utility, exhibiting low solubility in most materials and liquids encountered in the medical industry.
	100 g (Syringe)					

PTFE: Polytetrafluorethylene; MAC: multiply-alkylated Cyclopentane; PFPE: Perfluoropolyether; PAO: Polyalphaolefine; PAO-AN: Polyalphaolefine - alkylated Naphtalene



Product name	Thickener Base oil	NLGI grade	Base oil visc. at 40 °C [mm²/s]	Temperature range [°C]	Approvals, recommendations	Main application area
Electrical Contacts						
NYOGEL 760G	Silica / PAO	2	400	-40 / +135	–	A silica thickened, medium viscosity, synthetic hydrocarbon grease for lubrication and protection of electrical contacts. Benefits include good water resistance.
	2 cc (Pipette), 30 cc (White Syringe), 0.03 kg (Syringe), 25 g (Tube), 100 g (Tube), 150 g (EFD Cartridge), 300 g (EFD Cartridge), 400 g (Cartridge), 500 g (EFD Cartridge), 1 kg (Tin), 15.9 kg (Bucket)					
RHEOTEMP 768G	Polyurea / PAO-AN	1.5	193	-40 / +175	–	Rheotemp ™ 768G is a polyurea thickened, medium viscosity, synthetic hydrocarbon grease fortified with a copper passivator and UV tracer for use in electrical contacts. This grease was designed to meet the insertion force and resistance requirements of SAE/USCAR-2, revision 6, the performance standard for automotive electrical connection systems.
	0,03 kg (Syringe), 100 g (Tube), 1 kg (Tin), 15.88 kg (Bucket)					
RHEOTEMP 769G	Polyurea / PAO-AN	2	66	-40 / +175	–	A polyurea thickened, medium viscosity, synthetic hydrocarbon grease specially fortified for the protection of electrical contacts. Benefits include insertion force reduction, fretting corrosion protection and high temperature performance.
	30 cc (Syringe), 15.88 kg (Bucket)					
RHEOTEMP 763G	Polyurea / PAO-AN	–	43	-54 / +175	–	Rheotemp™ 763G is the next generation low voltage switch grease. It was developed for use on moving electrical contacts and interfaces that involve high cycle requirements.
	0.055 kg (Syringe), 200 g (Tin), 15.88 kg (Bucket)					

FUCHS Special Applications
NYE LUBRICANTS

Product name	Thickener Base oil	NLGI grade	Base oil visc. at 40 °C [mm²/s]	Tempe-rature range [°C]	Approvals, recommenda-tions	Main application area
Electrical Contacts						
NYETACT 568J-50-UV	Polyurea / PAO-AN	–	193	-40 / +175	–	A dispersion of a urea thickened, medium viscosity, synthetic hydrocarbon grease for lubrication and protection of electrical contacts. Benefits include high temperature performance and insertion force reduction.
	18.93 L (Bucket)					
NYETACT 571T-10	Kieselsäure / PFPE	–	150	-54 / +225	–	A dispersion of a perfluoroether lubricant dispersed in a perfluoro ethers solvent intended for electrical contact protection. Excellent high temperature performance and material compatibility.
	60 ml (Bottle), 1000 ml (Bottle)					

PTFE: Polytetrafluorethylene; MAC: multiply-alkylated Cyclopentane; PFPE: Perfluoropolyether; PAO: Polyalphaolefine; PAO-AN: Polyalphaolefine - alkylated Naphtalene



Product name	Thickener Base oil	NLGI grade	Base oil visc. at 40 °C [mm²/s]	Temperature range [°C]	Approvals, recommendations	Main application area
			Motion Control			
PG-44LS	Silica / PAO / Polybutene	2	33110	+10 / +120	–	A silica thickened synthetic hydrocarbon blend oil intended for very heavy damping.
☐	1 kg (Tin), 15.88 kg (Bucket)					
PG-44A	Silica / Polybutene	–	192000	+20 / +120	–	An extremely stiff, silica soap thickened, heavy viscosity, synthetic hydrocarbon grease intended for applications requiring a very high degree of mechanical damping
☐	1 kg (Tin)					
NYOGEL 774VL	Silica / PAO	2	903	-50 / +120	–	A silica thickened, light viscosity, synthetic hydrocarbon grease intended for mechanical components requiring a light amount of damping. Benefits include good water resistance.
☐	1 kg (Tin)					
FLUORO-CARBON GEL 880FG	PTFE / Dimethyl Silicone	2	18407	-40 / +200	–	A PTFE-thickened, heavy viscosity dimethyl silicone grease with excellent water resistance and mechanical stability under a wide temperature range. Suitable for use on machinery and instrumentation where incidental contact with food is possible.
! ☐	100 g (Tube), 1 kg (Tin), 3.63 kg (Bucket)					
UNIFLOR 8322	PTFE / PFPE	3	800	-20 / +225	–	A PTFE thickened, heavy viscosity, completely fluorinated grease intended for applications where plastic and elastomer compatibility and resistance to aggressive chemicals is required.
!	10 g (Tube)					

FUCHS Special Applications
NYE LUBRICANTS



Product name	Thickener Base oil	NLGI grade	Base oil visc. at 40 °C [mm²/s]	Tempe-rature range [°C]	Approvals, recommenda-tions	Main application area
			Other			
NYOGEL 758G	Lithium / Ester	3	36	-40 / +150	–	A stiff, lithium soap thickened, light viscosity, synthetic ester grease intended for demanding bearing applica-tions. Specially developed for electrical conductivity.
❗	100 g (Tube)					
UNIFLOR 8512	PTFE / PFPE	–	65	-50 / +225	–	A PTFE thickened, medium viscosity, completely fluori-nated grease for use in high temperature applications exposed to fuels or aggressive chemicals. It possesses excellent thermo-oxidative stability and low vapor pressure characteristics.
▯	1 kg (Tin)					
UNIFLOR 8951	PTFE / PFPE	2	18	-90 / +200	–	A PTFE thickened, light viscosity, completely fluorinated grease for use in wide temperature applications exposed to fuels or aggressive chemicals. It possesses excellent thermo-oxidative stability.
❗ ▯	50 g (Tube), 200 g (Tube), 200 g (Tin), 1 kg (Tin)					
UNIFLOR 8980	PFPE	–	140	-65 / +250	–	A medium viscosity, completely fluorinated oil intended for precision instruments, sensors, potentiometers, actuators and bearings where ultra-low temperature and low torque are critical design parameters.
❗	60 ml (Bottle)					

PTFE: Polytetrafluorethylene; MAC: multiply-alkylated Cyclopentane; PFPE: Perfluoropolyether; PAO: Polyalphaolefine; PAO-AN: Polyalphaolefine - alkylated Naphtalene

Product name	Thickener Base oil	NLGI grade	Base oil visc. at 40 °C [mm²/s]	Temperature range [°C]	Approvals, recommendations	Main application area
			Other			
UNIFLOR 8511	PTFE / PFPE	–	65	-50 / +225	–	A PTFE thickened, medium viscosity, completely fluorinated grease for use in high temperature applications exposed to fuels or aggressive chemicals. It possesses excellent thermo-oxidative stability and low vapor pressure characteristics.
	100 g (Tin), 270 g (EFD Cartridge)					
UNIFLOR 8931	PTFE / PFPE	2	310	-70 / +250	–	A PTFE thickened, heavy viscosity, perfluoropolyether grease for use in high temperature applications exposed to fuels or aggressive chemicals. It possesses excellent thermo-oxidative stability and low vapor pressure characteristics.
	50 g (EFD Syringe), 50 g (EFD Man. Syringe)					



FUCHS Smart Services

There’s more to lubrication than just oil

FUCHS Smart Services bring far more to the table than “just” a product. Instead, we combine performance fluids, digital technologies and a wide range of services for customized solutions. Solutions that do not only fit your individual processes perfectly but strive for improvement – along every step of the way and beyond.

Lubrication **Digitalization** **Services**



FUCHS Smart Services

Modules

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4 Steps to a better solution

Understand
Assess and Analyze

Develop
Plan and Set-Up

Manage
Implement and Operate

Optimize
Finetune and Reuse



Holistic and future minded

At the very core of everything we do is a promise of reliability. We move your world – not just to keep things running at all times, but to improve your whole production process. To do so, we constantly look ahead and at the big picture. A holistic approach that encompasses ecological, social and economic aspects.

FUCHS Smart Services
Modules







Service Measurements on-site

On-site-service for regular measurements (On-Site). For the sustainable and legally compliant handling of water-mixed cooling lubricants and cleaners and for optimizing their use.

Minimum one time per week. Implementation by qualified service technicians. Full documentation in FUCHS' own FluidsConnect database. Handling instructions

Advantages:

- Full utilization of the performance potential of cooling lubricants and cleaners through optimized control, evaluation and maintenance
- Optimization of consumption and service-life
- Ensuring compliance with all statutory occupational health and safety regulations. TRGS 611-compliant. Auditable overall concept

Titration Analytics

Sample analysis service (Off-Site). Service package for the sustainable and legally compliant handling of water-mixed cooling lubricants and for optimizing their use.

Pre-assembled sampling sets for weekly execution. Labeled sample kits per machine, sampling by customer, wipe, place in pre-franked shipping cartons, automatic collection, results 1-2 days later with instructions for action. Complete documentation in FUCHS' own FluidsConnect database.

Advantages:

- Full utilization of the performance potential of cooling lubricants and cleaners through optimized control, evaluation and maintenance
- Optimization of consumption and service-life
- Simple processing (just take samples, wipe and pack)
- Ensuring compliance with all statutory occupational health and safety regulations. TRGS 611-compliant. Auditable overall concept
- Additional assessment of overall stability by titration

Laboratory Analytics

Detailed assessment of lubricants in use with high priority. Regular status analysis as well as single problem analysis or optimization projects.

Analysis of samples in the state-of-the-art lubricant technology center in Mannheim. Depending on the lubricant type and objective, various analysis scopes are available, which are selected by specialized application engineers. They are also responsible for evaluating the results, commenting on them and defining measures.

Advantages:

- Process reliability through continuous detailed analysis. Ensuring compliance with all statutory occupational health and safety regulations. TRGS 611-compliant. Auditable overall concept
- Optimization of consumption and service-life
- Highest level of quality and analytics in implementation and assessment. Based on that, result relevance, problem solving and project development are at highest standards.

FUCHS Smart Services
Modules







Laboratory Management

Safe operation or establishment of laboratories on campus at customer's premises at highest quality levels.

Transfer of the highest level of quality and organization of FUCHS-Quality- and Service laboratories on site in customer laboratories. Setup and operation. Deployment of qualified laboratory staff. High level of organization. Flexible adaptation to local requirements to deliver results as needed.

Advantages:

- Clearly defined and safe operation of laboratories on site
- Highest quality level. Auditable processing
- Simple and transparent processing. Minimum effort for the customer
- Consideration of all relevant legal parameters
- Support in the definition of key figures and relevant process parameters
- Fastest response and communication through on-site analysis

Fluidmanagement

Support in sub-areas or overall responsibility for all processes of lubricant use in customer's plant. Reduction of costs with simultaneous increase in quality. Clear strategy for improving the sustainable use of lubricants.

Holistic service concept for the provision of services along the entire process chain of lubricant use in the plant. The key features: Refilling, changing, maintenance measures, data acquisition and evaluation, documentation via FluidsConnect, evaluation, monitoring of key figures, use of digital solutions, organization, communication, reporting, optimization projects. - Always flexibly designed and precisely adapted to requirements.

Advantages:

- Consumption savings through coordinated maintenance
- Optimal selection of the lubricant
- Optimized monitoring and trend detection
- Reduction of machine downtimes
- Cost reduction and increased efficiency
- Audit-proof documentation at any time

Order Management

Streamlining the customer's purchasing process by switching to FUCHS as general supplier. For all lubricants in the plant.

Planning, implementation and control of procurement processes for lubricants and related products for the customer. Management of all suppliers. Only one contact person for the customer. Flexible adaptation of communication and data exchange to the needs of the plant. Individual billing models. Organization of all information (safety data sheets, etc.).

Advantages:

- Significant effort- and cost savings in purchasing
- Optimization through variety rationalization







Stock Management

Planning, implementation and organization of warehouse processes on site at customer's premises.

Relief of customer's operation by taking over all warehouse activities, documentation and the organization of restocking. Supply to the point of use. Total stock of lubricants in consignment. Optimum combination with FUCHS order management. Different, flexibly adaptable forms of invoicing.

Advantages:

- Process improvement: Only one central contact person in the warehouse. This improves processes by bundling responsibilities and reducing interfaces
- Conservation of resources due to fewer unplanned processes
- Individual billing models reduce costs (e.g. consumption-based billing only when used)
- Reduction in capital commitment costs

Open Gear Service

Special service for customers in the raw materials industry with open gears (e.g. cement or paper plants, chemical industry, etc.).

Regular maintenance for open gears by specially trained experts. Required equipment is brought along. Creation of a maintenance plan. Optimization check and demand-oriented recommendation of measures.
Digital documentation in a specially designed FUCHS database.

Advantages:

- Increased process reliability through regular inspection and maintenance of critical lubrication points (e.g. tooth flanks)
- Full transparency through digital access to all test reports and condition diagrams
- Effort- and cost savings thanks to specific optimization suggestions from our application specialists

Lubricant Change

Planning and implementation of changes to all lubricant systems on site at customer's plant. Single activities or regular implementation.

Professional assessment and execution to avoid contamination in refilling with fresh product. Objective: Coordinated, safe and sustainable execution to achieve the best possible starting position for fresh refilling.

Advantages:

- Safe and fully organized process with documentation and acceptance by the customer
- Problem-free implementation by taking over all necessary planning

FUCHS Smart Services
Equipment



Product name	Description	Technical data	Advantages
		Coolants in Use	
Coolant Combination Test Strips Nitrite/pH	Suitable for the measurement of coolants	▪ Measuring range pH value: 6.0 – 9.6 ▪ Measuring range nitrite value: 1 – 80 mg/L NO2- ▪ Package size: 100 measurements ▪ Packaging unit: 5 packs (5 x 100 measurements) ▪ Shelf life: approx. 18-24 months **Optional:** ▪ Other measurands on request	▪ Easy handling ▪ Measurement of 2 measured values at the same time possible ▪ Time savings for the weekly TRGS 611 measurement ▪ First tendency in case of problems ▪ Cost-effective combination determination
Digital Refractometer	Suitable for measuring liquids	▪ Measuring range 0-95 % Brix ▪ Resolution 0.1 % Brix ▪ Dimensions: 120 x 55 35 mm ▪ Weight: 180 g ▪ Packaging unit incl. batteries and storage case **Optional:** ▪ Pipettes for the application of coolant to the lens	▪ Easy handling for measuring concentration ▪ Reduction of errors through automatic measurement ▪ Clear display of the Brix value ▪ Automatic temperature correction ▪ Waterproof housing (IP 65)
Handheld Refractometer 0-18%	Suitable for the measurement of coolants	▪ Measuring range: 0-18% Brix ▪ Scaling: 0.1 ▪ Package size: 1 piece ▪ With automatic temperature compensation **Optional:** ▪ Handheld refractometer 0-32% measuring range	▪ Simple measuring instrument, no major training required ▪ Measurement of concentration via Brix measurement (refraction of light) ▪ Can be used with a wide range of metalworking fluids
Dip Slides	Determination of yeasts, fungi, determination of total cell count; suitable for cooling lubricants / quenching medium / water	▪ Front: Bacteria Determination ▪ Reverse: Determination Fungi/Yeasts **Optional:** ▪ Incubator for cultivation is recommended for constant temperatures and comparable results	▪ Simple and cost-effective alternative to laboratory tests for initial indications ▪ Determination of bacteria and fungi/yeasts in one step

Product name	Description	Technical data	Advantages
		Coolants in Use	
Coolants - Test Case Compact	Suitable for the measurement of coolants	▪ Dimensions: 330 x 265 x 80 mm (L x W x H) ▪ 1 x Refractometer 0-18% ▪ Measuring strips pH: 7.0 – 14.0 (100 pieces) ▪ Measuring strips water hardness: 0-28 °dH (100 pieces) ▪ Nitrite measuring strips: 0-25 mg/L (100 pieces) ▪ 1 x Digital thermometer -50 ° - +100 °C ▪ 3 x Glass Sample Bottle, 1 x Pipette, Maintenance plan form, Ballpoint pen, Operating instructions **Optional:** ▪ All parts can also be reordered individually, on request	▪ Simple and cost-effective alternative to laboratory tests for initial indications ▪ All the utensils you need for manual measurement in a practical carrying case ▪ Coverage of TRGS 611 measurement parameters ▪ Safe storage of measuring equipment ensured
MWF Proportional Feeder 1-10 %	Suitable for coolants, incl. filter/wall bracket	▪ Water flow rate: 10-3000l/h ▪ Water inlet pressure: 0.5-6 bar ▪ Dosage adjustable from 1-10% ▪ Material: Housing: Polypropylene, Seal: VF ▪ Max. water temperature: 40° ▪ With by-pass switch (on/off dosing) ▪ Incl. 2.5m suction hose in viscous design 20x27mm **Optional:** ▪ Drum Adapter PDI 861-M or IBC Adapter PDI861-P ▪ Proportional feeder (0.5-5%) or (0.2-2%)	▪ Robust design and technology ▪ Mobile, low-maintenance equipment ▪ Easy and accurate adjustment of the mixing ratio
Mobile pallet mixing station	Suitable for coolant handling	▪ Drip tray: 200 liters ▪ Flow rate: 10 l/h - 3 m^3/h ▪ Concentrate quantity: 0.003 - 300 l/h* ▪ Operation without electr. current ▪ In FUCHS blue ▪ Incl. nozzle, hoses, proportional feeder 0.5-5 % ▪ Bracket for hose reel **Optional:** ▪ Proportional feeder 1-10%	▪ Robust design and technology ▪ Mobile, low-maintenance equipment ▪ Easy and precise adjustment of the mixing ratio on the machine possible ▪ Fixation lubricant drum ▪ Complete offer incl. hoses
Belt Skimmer Size L	Suitable for the care of coolants	▪ Band width: 50 mm ▪ Immersion depth: 500 mm ▪ Operating voltage: 3-12 V (230 V plug-in power supply) ▪ Flow rate: up to 4 liters / hour ▪ 6 levels adjustable ▪ Mounting: Magnetic base **Optional:** ▪ Band skimmer size M: immersion depth 250 mm ▪ Belt skimmer size XL: immersion depth 800 mm	▪ Compact design ▪ Easy and quick attachment to the tank ▪ Flexible adjustments via two joints ▪ Can also be mounted at an angle
Mobile Tramp Oil Separator	Air diaphragm pump, coalescing separator, with parking brake	▪ Dimensions: 1000 x 560 x 1000 mm (L x W x H) ▪ Suction capacity: 250-450 L/h ▪ Inlet and return of 3 m hose each ▪ Oil tank capacity: 9 L **Optional:** ▪ Various extraction options available from the tank, e.g. floating or rigid	▪ Robust design and technology ▪ Compact design ▪ Mobile Device ▪ Easy handling of tramp oil due to collection container
Coalescence oil separator Livecase elec.	Suitable for coolant fluid maintenance	▪ Incl. C-Thru® Separator Standard tank, magnetic base, float ▪ 1 x 230 V 50 Hz electrical pump ▪ 1 x 2,4 m 1" pvc hose ▪ 1 x 4,8 m 1/2" pvc hose ▪ 2 x 1" hose clamp ▪ 1 x 1/2" hose clamp ▪ Service instructions **Note:** Operation only with RCCB protection switch on site	▪ Easy design, ready for use ▪ Suitable for many coolant lubricant tanks ▪ Easy and quick installation ▪ Flexible to switch between machines

FUCHS Smart Services
Equipment



Product name	Description	Technical data	Advantages
		Storage	
Spill Tray Barrel	Suitable for 2 x 205 L drums	▪ Collection volume: 205 litres ▪ Load capacity: 800 kg ▪ Material: steel, galvanized, blue powder-coated ▪ Dimensions: 815 x 1236 x 355 mm (L x W x H) ▪ Weight: 64 kg ▪ With grids, underneath accessible **Optional:** ▪ Other sizes on request	▪ Space-saving, compact storage of 2 drums ▪ Approved for storage of all hazard classes ▪ Removable grids for easy cleaning
Spill Tray IBC	Suitable for 1 x 1000 L IBC	▪ Collection volume: 1000 liters ▪ Load capacity: 2000 kg ▪ Material: steel, galvanized, blue powder-coated ▪ Dimensions: 1650 x 1350 x 710 mm (L x W x H) ▪ Weight: 215 kg ▪ With grids, underneath accessible **Optional:** ▪ 3-sided galvanized splash guard ▪ Drip tray with filling trestle ▪ Other sizes on request	▪ Space-saving, compact storage of 1 IBC ▪ Approved for storage of all hazard classes ▪ Removable grids for easy cleaning ▪ Add-on parts enable individualization ▪ Easy to move with forklift / pallet truck
Storage Tank Fresh Oil 1,500 L	Storage Liquids >55 °C flash point	▪ Curb weight: 133 kg ▪ Dimensions: 1630 x 760 x 1860 mm (L x W x H) ▪ Volume: 1500 liters ▪ Usable volume (95%): 1425 liters ▪ Material inside: HDPE ▪ Material: Galvanized steel sheet on the outside ▪ Number of openings: 4 pieces **Optional:** ▪ Other tanks and accessories on request	▪ Compact design, also suitable through doors ▪ Double-walled design ▪ Large volume for long-term security of supply
Waste Oil Tank 1,000 L	Filler neck, suction nozzle & suction pipe, vent nozzle, content viewer	▪ Dimensions: 1135 x 737 x 1820 mm (L x W x H) ▪ Volume: 1000 liters ▪ Material inside: PE ▪ Material outside: sheet steel Jacket & Pallet ▪ Number of openings: 4 pieces ▪ Underneath accessible **Optional:** ▪ Other tanks and accessories on request	▪ Compact design ▪ Hopper for safe disposal ▪ Double-walled tank ▪ Can be moved if necessary

Product name	Description	Technical data	Advantages
		Storage	
Digital Level Monitoring SmartLevel	Suitable for drum / IBC / stationary storage tanks	▪ Tank material: plastic, GRP, metal, IBC, drum ▪ Fittings: 2", 1 1/2", 1" ▪ Measuring interval: 2h – 24 h adjustable ▪ Data transmission: mobile phone / WLAN ▪ Operation: Battery ▪ Maximum tank height: 2 m or 3 m or 5 m or 10 m **Optional:** ▪ Different measuring principles depending on the application ▪ Drum adapter for level sensor radar available	▪ Easy installation and commissioning ▪ No more "running dry" thanks to early alerting ▪ Individual settings possible online ▪ Digital overview of all fill levels in the warehouse ▪ Battery change can be done by yourself
Drum Level Indicator – Manual 60/200 L	Suitable for drums, 60 or 200 L	▪ Lubricants automotive and industry, fresh oils, used oils ▪ Vertical mounting – no horizontal containers ▪ With FUCHS logo	▪ Cost-effective solution for manual monitoring ▪ Easy handling and installation ▪ Suitable for standing 60 and 210 L drums

FUCHS SmartLevel



We offer our customers a simple and reliable solution for monitoring the fill level and consumption of their lubricant stocks.

SmartLevel combines intelligent and sophisticated technology with intuitive operability.

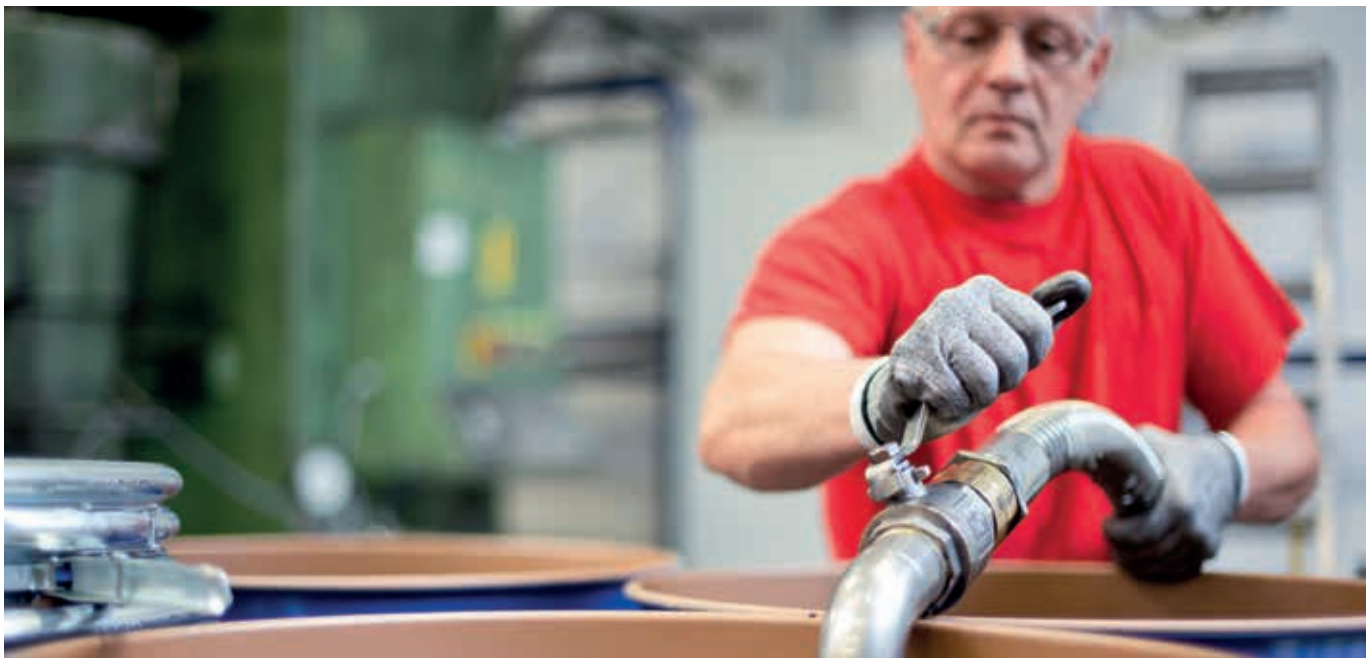
Benefits for you as a user:

- Continuous lubricant supply
- Insight into lubricant consumption
- Accuracy of the measurement
- Simple and fast implementation
- Seamless, automated and efficient solution



← Further information about FUCHS SmartLevel

FUCHS Smart Services
Equipment



Product name	Description	Technical data	Advantages
		Handling of Oils and Greases	
Hand Lever Pump 	Suitable for engine oils, hydraulic oil, diesel, heating oil and Antifreeze	▪ Material: Metal ▪ Telescopic suction tube: 60-205 l ▪ Barrel fitting: 2" ▪ Flow rate: 0.25 l / stroke	▪ Simplest handling of oil ▪ Manual operation, no electricity/compressed air required ▪ Ready for immediate use
Electric Oil Pump 	Drum pump for 200 L containers	▪ Dispensing hose NW: 16 x 2,000 ▪ With nozzle 1-35 L/min ▪ Electric pump: 230 V WS with cable and plug ▪ On/off switch ▪ Drum bridge for a secure hold on the container **Optional:** ▪ Also available with digital flow meter	▪ Ready-to-use set ▪ Fast conveying for larger quantities
Electrical Barrel Pump Set/IBC 	Pre-assembled for drums – tube length 1000 mm; suitable for petroleum products	▪ Gasket mechanical seal, NBR ▪ Flow rate: max. 80 l/min. ▪ Viscosity: max. 1,000 mPas ▪ Temperature: max. 80 °C ▪ Conveying height: max. 10 m ▪ IP 24, 230 Volt, 50 Hz, 800 Watt ▪ Incl. hose 2m length ▪ Incl. nozzle **Optional:** ▪ Length 1200 mm suitable for IBC (container)	▪ Powerful pump for fast handling of media ▪ Complete set – get started right away ▪ Also suitable for higher viscosities ▪ Available for barrel/IBC

Product name	Decription	Technical data	Advantages
		Handling of Oils and Greases	
Hand Lever Grease Gun 	Hand lever grease gun with TWIN-LOCK system, with wing nut, suitable pumped medium: grease	▪ Cartridges: 400 g cartridge / 500 ccm loosely filled ▪ Press tube galvanized ▪ Connection thread: M10 x 1.0 ▪ Incl. nozzle tube 140 mm, angled **Optional:** ▪ Various spare parts available	▪ Twin-Lock system prevents an apparent supply of the lubrication point, by preventing grease leakage from the piston and causing a back-flow into the the cartridge is excluded ▪ Simple hand lever grease gun for lubrication activities ▪ Robust housing; incl. nozzle tube 140 mm, ready for immediate use
Mobile Pneumatic Lubricator 	Mobile by carriage, suitable for greases up to NLGI 2, high-pressure lubrication gun with professional Z-joint	▪ Pump 55:1 – capacity: approx. 550 g/min (free outlet and 7 bar inlet pressure) ▪ Riser Ø top 28 mm, bottom 41 mm ▪ Compressed air connection: G 1/4"i ▪ Air pressure: min. 3 to max. 10 bar ▪ Lubrication pressure: max. 400 bar ▪ Air consumption: 230 l/min **Optional:** ▪ Other versions available on request	▪ Mobile device by carriage ▪ Efficient work with larger quantities ▪ Suitable for almost all greases ▪ High performance, high operating pressure possible
Stationary Pneumatic Lubrication Unit 	Suitable for greases up to NLGI 2, high-pressure lubrication gun with professional Z-joint	▪ Pump 55:1 – capacity approx. 550 g/min (free outlet and 7 bar inlet pressure) ▪ Riser Ø top 28 mm, bottom 41 mm ▪ Compressed air connection: G 1/4"i ▪ Air pressure: min. 3 to max. 10 bar ▪ Lubrication pressure: max. 400 bar ▪ Air consumption: 230 l/min **Optional:** ▪ Other versions available on request	▪ Efficient work with larger quantities ▪ Suitable for almost all greases ▪ High performance, high operating pressure possible
Pneumatic Grease Filling Device ZS 	Suitable for greases of consistency class NLGI 000 to 0	▪ Delivery rate: 2 kg/min ▪ Pressure ratio: 3:1 ▪ Air pressure: min. 2 to max. 10 bar ▪ Pump pipe diameter: 34 mm ▪ Grease hose: 2m, 2 TE, NW 16, G 3/4", ball valve ▪ incl. grease follower plate and dust cover ▪ incl. self-closing quick coupling **Optional:** ▪ Other versions, e.g. as a mobile device or for other grease container sizes, possible on request	▪ Powerful low-pressure pump for filling centralized lubrication systems or for decanting ▪ Double-acting, for an even grease flow ▪ Pressure reducer with water separator for low-wear operation and a long service life
Manual Grease Filling Device ZS 	Suitable for greases of consistency class NLGI 000 to 2	▪ Delivery rate: approx. 30 ccm/stroke ▪ Pump pipe diameter: 40 mm, length 775 mm ▪ Operating pressure: max. 35 bar ▪ Grease hose: 2 m PVC grease hose NW 16, nylon reinforced ▪ incl. grease follower plate and dust cover ▪ incl. self-closing quick-release coupling ▪ incl. trolley **Optional:** ▪ Other versions, e.g. as a stationary device or for other grease container sizes, possible on request	▪ Works even at sub-zero temperatures down to -20° C ▪ Extremely powerful suction due to specially adjusted stroke and large suction and valve openings ▪ Robust and wear-resistant thanks to strong steel lever ▪ Low actuating force required (11 to 16 kp)

FUCHS Smart Services
Equipment

Product name	Decription	Technical data	Advantages
		Handling of Oils and Greases	
One-Hand Grease Gun SR 	TÜV tested with GS mark	▪ Achievable pressure of up to 150 bar in one-handed operation ▪ Cartridge: System Reiner ▪ Incl. armoured hose and gripper coupling ▪ Flow rate: 0.8 cm³/stroke ▪ Connection thread: M10x1 **Optional:** ▪ Armoured hose and gripper coupling available as spare parts	▪ Easy and clean lubrication for smaller quantities ▪ Robust design and technology ▪ One-handed operation possible
HP Two-Handed Grease Gun SR 	TÜV tested with GS mark, ergonomic handles for optimal service, residual emptying by means of a special piston shape	▪ Achievable pressure: 400 bar ▪ Lubrication quantity per stroke: approx. 1.5 cm³ ▪ Cartridge: System Reiner ▪ Coupling connection: M10x1 ▪ Protective cap against contamination of the gripper coupling ▪ Incl. armoured hose and gripper coupling **Optional:** ▪ Armoured hose and gripper coupling available as spare parts	▪ Simple, clean and safe lubrication of high-quality machines with long lubrication lines ▪ Large quantities of lubricant and larger volumes of lubricant per stroke possible ▪ Twin-Lock system prevents an apparent supply of the lubrication point, by preventing grease leakage from the piston and causing a back-flow into the the cartridge is excluded
Electric Battery Grease Gun (AMP) 	For greases NLGI class 000 to 2 (according to DIN 51818)	▪ Cartridges: 500 g System Reiner / 400 g Pull-Off / Lube Shuttle® ▪ Operating pressure: up to 700 bar (overpressure valve limited) ▪ Flow rate: approx. 120 g/min ▪ Charging time: approx. 1 h ▪ Incl. rechargeable battery 18V Li-Ion, 4000 mAh AMP Share ▪ Incl. hose and SR adapter ▪ Incl. case and charger **Optional:** ▪ Version also available without battery ▪ Spare battery available separately ▪ Charger available separately	▪ System Reiner cartridges can be easily replaced by screw connection ▪ Larger relubrication quantities convenient and fatigue-friendly can be applied ▪ Separate AMP share battery for alternating operation possible
Compressed Air Press Grease 	Convenient one-handed operation, controlled fat release by single print	▪ Cartridges: 500 g System Reiner ▪ Inlet pressure: 2-6 bar (max. pressure peak: 10 bar) ▪ Flow rate: approx. 1 cm³/stroke ▪ Gear ratio: 1:30 ▪ Connection thread: M10x1 ▪ Incl. safety rubber armoured hose ▪ Incl. 4-jaw professional mouthpiece	▪ Lubrication of machines of all kinds, commercial vehicles and construction machinery ▪ Controlled fat release possible ▪ Suitable for larger lubrication quantities
HD Grease Gun CASSIDA 	For use in the food sector, TÜV tested with GS marks, ergonomic handles for optimal operation	▪ Achievable pressure: up to 5,800 psi ▪ Lubrication quantity per stroke: approx. 1.5 cm³ ▪ Connection thread: M10x1 ▪ The Twin-Lock system protects the piston from wear and prevents that grease comes out of the piston ▪ Protective cap against contamination of the gripper coupling ▪ Flexible armoured hose for optimum accessibility of lubrication points	▪ Efficient, clean and safe lubrication of your machines ▪ Also due to long lubrication lines, large quantities of lubricant and large amounts of lubricant per stroke ▪ Easy handling due to the use of SR cartridge with screw cap lubricated with food-grade grease
Central Lubrication Systems Filling System 	Important: Please order coupling plugs separately!	▪ Cartridges: SR Cartridge ▪ Only for Beka Max lubrication systems with coupling plug ▪ Coupling plug (M20x1.5) **Optional:** ▪ Filling system for 400g pull-off cartridges	▪ Easy and fast filling of central lubrication systems with SR cartridges ▪ Simple and energy-saving operation ▪ Secure connection through coupling plug

Product name	Decription	Technical data	Advantages
		Handling of Oils and Greases	
Easy Spray Gun 260 mm 	For the application of fluids containing solids, or free-flowing greases	▪ Air connection: female thread: ¼" ▪ Required air pressure: 6-12 bar ▪ Filling capacity: 0.75 l ▪ Storage container: Not pressurized ▪ Spray nozzle on the 260 mm long spray tube is adjustable	▪ Adjustable spray nozzle for accurate work
Grease Spray Gun LUBE-JET ECO 	Suitable for Lube-Shuttle® cartridges	▪ Operation: pneumatic ▪ Operating pressure: max. 5 bar ▪ Cartridges: Lube-Shuttle® screw-in cartridges	▪ Saves time by precise spraying larger surfaces ▪ Perfect for applying grease to larger surfaces such as telescopic arms or chains ▪ Can be used without additives such as propellant gas or solvents
Hand lever grease gun Lube-Shuttle® cartridges 	Suitable for Lube-Shuttle® cartridges	▪ Cartridge: 400 g Lube-Shuttle® cartridges ▪ Press tube galvanized ▪ Connection thread: M 10 x 1.0 ▪ Working pressure: more than 400 bar (5.800 psi) ▪ Max. pressure capability: approx. 800 bar (11.600 psi) ▪ TÜV, DLG, BLT approved **Optional:** ▪ Armoured hose and gripper coupling available as additional parts	▪ Easy and clean lubrication for smaller quantities ▪ Robust design and technology

FUCHS Smart Services
Equipment



Product name	Decription	Technical data
	Small Parts / Accessories	
VCI Rapid Test Kit	Suitable for testing the remaining VCI active ingredient in RENOLIN CLP VCI oils	▪ Packing unit: 4 test kits ▪ Incl. syringe 5ml per test ▪ Instructions and comparison scale included
Sample Bottle 250 ml – 5 pieces	Suitable for e.g. hydraulic oils, coolants, antifreeze	▪ Content 250 ml ▪ Packing unit: 5 pieces as a package ▪ Incl. lid, sample label, unstamped stamp **Optional:** ▪ Larger quantities available on request
Sample Bottle 250 ml – 450 pieces	Suitable for e.g. hydraulic oils, coolants, antifreeze	▪ Content 250 ml ▪ Packing unit: 450 pieces as a package ▪ Incl. lid **Optional:** ▪ Larger quantities available on request
Sample Bottle 1000 ml	Suitable for e.g. hydraulic oils, coolants, antifreeze	▪ Content 1,000 ml ▪ Packing unit: 64 pieces ▪ Incl. Lid **Optional:** ▪ Larger quantities available on request
Sample Bottle 2500 ml	Suitable for e.g. hydraulic oils, coolants, antifreeze	▪ Content 2,500 ml ▪ Packing unit: 27 pieces ▪ Incl. Lid **Optional:** ▪ Larger quantities available on request
Barrel Key Steel	Opening of sealing caps and drum closures	▪ Material: galvanized steel ▪ For 3/4" and 2" screw connections
Drum Transport Lifter	Suitable for containers with a capacity of up to 200 litres	▪ Dimensions 690 x 660 x 1520 mm (L x W x H) ▪ Weight 26 kg ▪ Can be set down to a height of 360 mm
Jug Set 2L/5L	Set consisting of 2L and 5L jug	▪ With flexible spout ▪ With lid against contamination

Product name	Decription	Technical data
	Small Parts / Accessories	
Funnel Set	6 funnels, rigid spout	▪ Sizes: Ø 50, 75, 100, 120, 150 and 160 mm
Outlet Nozzle IBC	Suitable for IBC (Greif)	
Outlet Tap for Canister	Can be used for canisters	▪ Opening 50 mm or 60 mm
Outlet tap for drum, 2", plastic, brown K12	Suitable for drums	▪ Package unit: 12 pieces ▪ Material: plastic ▪ Colour: brown
Outlet tap for drum, 3/4", plastic, brown K12	Suitable for drums	▪ Package unit: 500 pieces ▪ Material: plastic ▪ Colour: brown
Grey Cast Iron Tap for drum 2"	Suitable for drums	▪ Material: grey cast iron
Grey Cast Iron Tap for drum 3/4"	Suitable for drums	▪ Material: grey cast iron

Industry Brochures



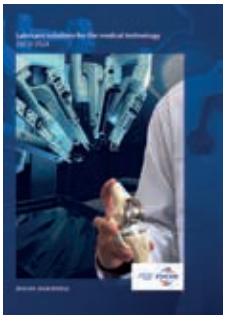
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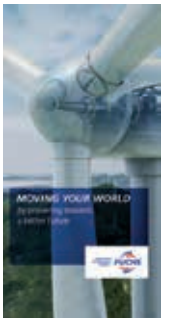
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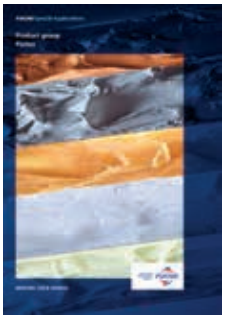
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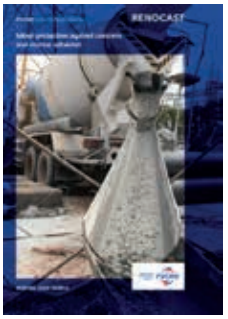


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Concrete Release Agents for the Construction Industry



Mixer Protection – Protection against concrete and mortar adhesion



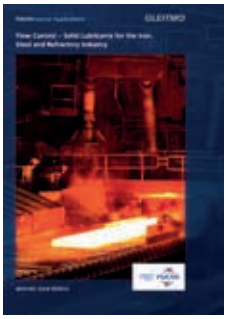
Lubrication, Maintenance, Service for Open Gears



Solid Film Lubricants – the Dry Lubrication



Solid Film Lubricants for Elastomer Products



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The Design Engineer´s Guide to Selecting a Motion Control Grease

Videos



Hydraulic oil RENOLIN Xtreme Temp in the field test



The high efficiency of RENOLIN Xtreme Temp



Cavity conservation in practice – ANTICORIT CPX®



Comparison of flaming behaviour – universal high-performance quenching oil THERMISOL QH 35 MC (right in the video)



Application of concrete release agents



Concrete release agents



Application of mixer protection



Setting new standards in safe food lubrication solutions

FUCHS LUBRICANTS GERMANY at YouTube

Notes

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برای استعلام قیمت، اعلام موجودی و ثبت سفارش تکی و عمده گریس FUCHS با کارشناسان محرک چرخش تماس بگیرید.

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