

ELKALUB



Hochleistungs-Schmierstoffe
High Performance Lubricants



Lubricants

for the food-processing and
pharmaceutical industries

High performance lubricating oils, high performance lubricating greases,
high performance sprays for general industry, printing- and paper processing industry,
food-processing and pharmaceutical industries



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Lubricating oils with H1 approval

Paraffin oils

Paraffins are made of mineral oils and are highly refined in order to be used in the food, beverage and pharmacy sectors. By adding of food grade approved substances they offer anti-wear properties to be employed as lubricating oils in machines, technical devices and production plants. The paraffin oils are of high anti-aging characteristics, resin-free and friendly to plastics and sealing materials.

Designation	ISO VG	Temperature (°C)	Examples for use
LFC 3015	15	-20/+ 120	pneumatic devices
LFC 3022	22	-20/+ 120	hydraulic appliances
LFC 3032	32	-20/+ 120	gears
LFC 3046	46	-20/+ 120	circular lubrication
LFC 3068	68	-15/+ 120	pumps
LFC 3100	100	-15/+ 120	roller bearings and slide bearings
LFC 3150	150	-15/+ 120	chains, joints, guides
LFC 3220	220	-10/+ 120	
LFC 3320	320	-10/+ 120	
LFC 3460	460	-10/+ 120	
LFC 3680	680	-10/+ 120	
LFC 31150	1.150	-10/+ 120	
LFC 34068	68	-15/+ 120	Gear unit lubrication; very high wearing protection with low temperatures
LFC 34100	100	-15/+ 120	pumps
LFC 34150	150	-15/+ 120	roller bearings and slide bearings
LFC 34220	220	-15/+ 120	chains, joints, guides
LFC 34320	320	-10/+ 120	
LFC 34460	460	-10/+ 120	

Poly-Alpha-Olefines (PAO)

PAO are synthetic hydrocarbons. These oils can be used at both low and high temperatures and show no tendency to coking or residue formation. They have an excellent air and water separation capacity, high viscosity index and are miscible with conventional mineral oils.

Designation	ISO VG	Temperature (°C)	Examples for use
LFC 9022	22	-45/+ 150	hydraulic appliances
LFC 9032	32	-45/+ 150	gear and circular lubrication
LFC 9046	46	-45/+ 150	pumps
LFC 9068	68	-40/+ 150	compressors
LFC 9100	100	-40/+ 150	roller bearings and slide bearings
LFC 9150	150	-40/+ 150	chains, joints, guide systems
LFC 9220	220	-35/+ 150	
LFC 9320	320	-35/+ 150	
LFC 9460	460	-30/+ 150	
LFC 9680	680	-20/+ 150	
LFC 91000	1.000	-20/+ 150	

Polyglycol oils

The polyglycol oil series LFC 8000 are fully synthetic high performance lubricants and are well suited for applications when slide-friction is a given fact. These polyglycol oils are almost not or not miscible with other oils. Unfriendly to many agents surface coatings, sealing materials and plastics.

Designation	ISO VG	Temperature (°C)	Examples for use
LFC 8150	150	-20/+ 120	gears, in particular worm drives,
LFC 8220	220	-20/+ 120	chains and guide systems
LFC 8320	320	-20/+ 120	
LFC 8460	460	-20/+ 120	

Special oils

The products listed underneath have been developed for particular applications shown below.

Designation	Viscosity	Temperature (°C)	Remarks
LFC 92100	100	-40/+ 150	Special oil based on PAO; suitable for robot gears
LFC 921000	1.000	-40/+ 150	Special oil based on PAO; suitable for robot gears
LFC 7260	260 mm ² /s (+40 °C)	-50/+ 150	Slide & separation oil made of silicone
VP 784	27 mm ² /s (+40 °C)	-20/+ 120	Grease enriched oil for use in wet areas
VP 806	35 mm ² /s (+40 °C)	-30/+ 140	Oil for sewing machines
LA 8 H1	4.000 mm ² /s (+40 °C)	-10/+ 80	Lubricant of good adhesion for heavy chains and open areas

Lubricating grease with H1-approval

Designation	NLGI	Temperature (°C)			ndm values	Base oil/ Thickener	Remarks
		lowest	upper	short			
GLG 886	00	-30	+120			PG, aoV	Gear grease (esp. small gears with high sliding friction)
GLS 361	1	-25	+120			W, synth. oil, aoV	Special grease against tribocorrosion; assembly grease for stainless steel connections (also available in brush can)
GLS 363	3	-25	+120	+140	200.000	W, E, aoV	For roller and slide bearings in pumps and motors; good adhesion
GLS 364	2	-10	+120	+150	>600.000	W, PH	For cutter shaft bearings, slicer, sausage filling devices and sealing of sterilizers
GLS 367	1, 2, 00, 000	-10	+130	+180	100.000	W, synth. oil, aoV	For roller and slide bearings, gears, guides and open lubricating points
GLS 380	2, 1	-10	+120	+180	200.000	W, PAO, Al	Mainly for slide bearings and guides with non-ferrous/steel pairings
GLS 381	00, 000	-20	+120	+150		W, Al	Semi-liquid gear grease with high water resistance
GLS 382	2	-20	+120		200.000	W, Al	For roller and slide bearings under increased load
GLS 388	2, 1	-10	+100	+130	200.000	W, PAO, Al	High adhesive grease for roller and slide bearings, guide systems and open lubricating areas
GLS 595	2	-40	+250	+300	100.000	PFE, oV	High temperature grease for roller and slide bearings. Not miscible with other greases
GLS 794	3, 2, 1, 0	-40	+180	+200	100.000	Si, oV	For sliding actions, valves, guides, O-ring-assembly; will not influence beer foam generation
GLS 867	0-1	-10	+35			PG, oV	Assembly grease for EPDM-sealing of filling devices; easy to be removed; approved by Krones
GLS 964	2	-20	+130	+150	500.000	W, PAO, PH	Synthetic grease for roller and slide bearings; good sealing behaviour due to its thixotropic behaviour
GLS 967	1-2	-15	+130	+150	100.000	PAO, E, W, aoV	Increased resistance to water, acids and alkalis with excellent load carrying capabilities
GLS 980	2	-40	+140		200.000	PAO, E, Al	For roller and slide bearings under increased load and temperature
GLS 991	2	-40	+140			PAO, oV	Low-viscosity grease for pneumatics, bearings, gears, sliding motions, sliders, fittings
GLS 993 H1	1	-40	+150	+200	100.000	PAO, oV	For pneumatic cylinders, slide motions, gears, actuators, etc.
VP 873	2	-20	+140		100.000	W, synth. oil, PH	For roller and slide bearings running under high load as well as open lubricating points
VP 874	2	-20	+120		600.000	W, synth. oil, PH	In particular for linear guide systems (recommended by Bosch-Rexroth) and for roller and slide bearings
VP 886	2	-30	+120	+140	300.000	PG, aoV	Well suited for roller and slide bearings under UV-beaming influence
VP 889	2	-15	+130		100.000	PAO, E, W, aoV	Designed for chains of sterilizers, high resistance to water, acids and alkalis
VP 890	>000	-35	+140			PAO, PH	Very soft and synthetic semi-liquid gear grease with increased anti-wear protection properties
VP 899	1	-40	+140		2.300.000	PAO, PH	Miniature ball bearings, spindle bearings
VP 922	1	-30	+140			PAO, PH	Grease for electric cylinders
VPG 927	2-3	-40	+500			Si, aoV	High temperature grease with solid lubricants; over 250 °C the lubrication passes to solid lubrication

Lubricating greases with H2-approval

Designation	NLGI	Temperature (°C)			ndm values	Base oil/Thickener	Remarks
		lowest	upper	short			
GLS 962	2	-40	+170	+250	600.000	PAO, E, PH	High temperature grease for roller bearings and slide bearings
GLS 965	3	-40	+170	+250	600.000	PAO, PH	High temperature grease for roller and slide bearings under high load

Sprays and technical liquids with H1-approval

Designation	Temperature (°C)			Spray	liquid	Remarks
	lowest	upper	short			
FLC 8 H1	-20	+100		x		Highly viscous and very adhesive spray for heavy duty transmission chains, cams, curve discs, guide systems, slides and open cogwheels; FLC 8 H1 is noise absorbing. The active substance of FLC 8 H1 has been tested by the chain producer Renold in a very positive way
FLC 367	-20	+130	+180	x		Grease spray showing high resistance to steam, acids and alkalis. Well tested with transmission and lift chains, guide systems, spindles. Assembling aid for sealings
FLC 367 P*	-20	+130	+180	x		
FLC 675 R+S				x	x	Cleaning agent for oil- and greasy machinery components with lubrication effects. The remaining thin oil layer offers a short-term lubrication and avoids a dry running of machine components
FLC 745			+170	x		Medium-viscous silicone spray forming a visual not perceptible, thin, non-glueing sliding layer, which can be applied on metal, non-metal, wood, rubber, paper, cardboard or plastic material
FLC 900 Clean				x		Cleaning agent for lubricant residues, resin formation and paint residues leaving a completely residue-free surface
FLC 3010	-20	+120		x		Resin and acid free paraffin aerosol offering outstanding creepability characteristics in gaps and fits
FLC 4010	-35	+180		x		Lightly greased oil spray primarily used for high temperature range, for increased speed as well as in wet surroundings. The product offers excellent protection against wear and corrosion. With FLC 4010 P we have a pressureless edition available for hazard-free air-transport
FLC 4010 P*	-35	+180		x		
FLC 9010	-35	+160		x		Fully synthetic oil spray, resistant to aging and ideal for the lubrication of bearings, chains, guide systems and joints in an extended temperature working area. FLC 9010 can also be used in a wide temperature range
FLC 9030	-40	+160		x		Light oil for dental instruments and appliances; especially used in handpieces of dental turbines
FLC 905				x		Cleaning spray for dental instruments and appliances; especially used in handpieces of dental turbines
MBF 360	0	+60			x	Low-viscous anticorrosion agent, can be applied with spray gun, cloth or brush; can be removed with hot water, superheated steam or solvent; MBF 360 is mainly used for the protection against corrosion during transport and storage of metallic components; the use as a lubricant is also possible
MBF 370	0	+60			x	This product is applied thicker than MBF 360 and offers a higher protection against corrosion. A special application is a temporary protection against corrosion on fish processing machines on ships. Due to its high pressure properties and its low dust acceptance it is suitable for machines in dusty conditions. Well suited for the lubrication of drive chains
MBF 370 P*	0	+60		x		

* Pump-action spray, friendlier to the environment and easier storage and transport condition

Legend:

M = Mineral oil W = White oil, E = Ester, PAO = Poly-Alpha-Olefins, Si = Silicon, synth. oil = Synthetic oil, PFE = Perfluorinated ether oil, PG = Polyglycole, Al = Aluminium, PH = Polyurea, aoV = anorganic thickener, oV = organic thickener

The above information has been compiled to our best knowledge to help and advise you in selecting the right product to meet your requirements. However, considering the vast number of different applications or purposes, we cannot accept warranty.

We recommend to seek specific advise so we can assist you competently.

**Chemie-Technik
and ELKALUB**

Pioneering high performance lubricants, oil – and fuel additives hallmarked the beginning of “Chemie Technik GmbH” in 1956.

Focussing on high performance lubricants for industry and craftsmanship, our products have been sold under the brand ELKALUB since the early 70s.

Products For many physically demanding applications we offer a wide range of **greases and oils**. Where restricted access to lubricating points occurs we recommend that our greases and oils are used as **aerosol sprays**.

Applications Especially for the solution of demanding lubricating tasks, ELKALUB high performance lubricants are the most popular choice. We develop and produce lubricants for numerous national and international companies in the following branches of industry: printing, food processing, pharmaceutical, machinery manufacture, automotive and tool making.

Service & advise Mechanical systems always present a complex matrix of parameters with various influences. The selection of the proper lubricant requires extensive technical know-how with long-term working experience. Please contact us or our partner in your country with your individual requirements for lubrication.

Lubricant consultation: +49 7454 9652-0

