

# ELKALUB

*High Performance Lubricants*



**>>> EXENDED PRODUCT PROGRAM**



***Lubricants for  
Industry and Handicraft -  
Product Survey***

## Lubricating oils

### Mineral oils

Designation	ISO VG	Temperature (°C)	to be used for
LFC 1005	5	-20/ +80	Pn, Sp
LFC 1010	10	-20/ +80	Pn, Sp
LFC 1015	15	-20/ +100	Pn
LFC 1022	22	-15/ +100	Pn, Hy
LFC 1032	32	-15/ +120	Pn, Hy
LFC 1046	46	-15/ +120	Hy, Um, Ge
LFC 1068	68	-10/ +120	Hy, Um, Ge, Ke
LFC 1100	100	-10/ +120	Um, Ge, Ke
LFC 1150	150	-10/ +120	Ge, Ke, La
LFC 1220	220	-10/ +120	Ge, Ke, La
LFC 1320	320	-10/ +120	Ge, La
LFC 1460	460	-10/ +120	Ge, La
LFC 1680	680	-5/ +120	Ge, La
LFC 11000	1000	-5/ +120	Ge, La
LFC 11500	1500	-5/ +120	Ge, La

### Mineral oils (adhesive version)

Designation	ISO VG	Temperature (°C)	to be used for
LFC 1046H	46	-15/ +120	Ge, Ke
LFC 1068H	68	-10/ +120	Ge, Ke
LFC 1100H	100	-10/ +120	Ge, Ke
LFC 1150H	150	-10/ +120	Ge, Ke, La
LFC 1220H	220	-10/ +120	Ge, Ke, La
LFC 1320H	320	-10/ +120	Ge, Ke, La
LFC 1460H	460	-10/ +120	Ge, Ke, La
LFC 1680H	680	-10/ +120	Ge, Ke, La
LFC 11000H	1000	-10/ +120	Ge, La
LFC 11500H	1500	-10/ +120	Ge, La

### Paraffin oils for food processing industries with H1-approval

Designation	ISO VG	Temperature (°C)	to be used for
LFC 3015	15	-20/ +120	Pn, Sp
LFC 3022	22	-20/ +120	Pn, Hy, Ke
LFC 3032	32	-20/ +120	Hy, Ke
LFC 3046	46	-20/ +120	Hy, Um, Ge, Ke
LFC 3068	68	-15/ +120	Hy, Um, Ge, Ke
LFC 3100	100	-15/ +120	Um, Ge, Ke
LFC 3150	150	-15/ +120	Ge, Ke
LFC 3220	220	-10/ +120	Ge, Ke, La
LFC 3320	320	-10/ +120	Ge, Ke, La
LFC 3460	460	-10/ +120	Ge, La
LFC 3680	680	-10/ +120	Ge, La
LFC 31150	(1150)	-10/ +120	Ge, La

### Poly-Alpha-Olefines (with H1-approval)

Designation	ISO VG	Temperature (°C)	to be used for
LFC 9032	32	-45/ +150	Hy
LFC 9046	46	-45/ +150	Hy, Um, Ko
LFC 9068	68	-40/ +150	Um, Ge, Ko
LFC 9100	100	-40/ +150	Um, Ge, Ko
LFC 9150	150	-40/ +150	Ge, Ke, La, Ko
LFC 9220	220	-35/ +150	Ge, Ke, La, Ko
LFC 9320	320	-35/ +150	Ge, Ke, La
LFC 9460	460	-30/ +150	Ge, Ke, La

### Ester based oils

Designation	ISO VG	Temperature (°C)	to be used for
LFC 4032	32	-40/ +130	Hy
LFC 4046	46	-40/ +130	Hy
LFC 4068	68	-35/ +130	Hy, Ke, Ko
LFC 4100	100	-35/ +140	Um, Ge, Ke, Ko
LFC 4150	150	-35/ +140	Um, Ge, Ke, Ko
LFC 4220	220	-35/ +140	Ge, La, Ke, Ko
LFC 4320	320	-35/ +140	Ge, La, Ke, Ko

### Poly glycol based oils

Designation	ISO VG	Temperature (°C)	to be used for
LFC 8032	32	-20/ +120	Hy
LFC 8046	46	-20/ +120	Hy
LFC 8068	68	-20/ +120	Hy, Um
LFC 8100	100	-20/ +120	Um, Ge
LFC 8150 (H1)	150	-20/ +120	Um, Ge, Ke, La
LFC 8220 (H1)	220	-20/ +120	Ge, Ke, La
LFC 8320 (H1)	320	-20/ +120	Ge, Ke, La
LFC 8460	460	-20/ +120	Ge, La
LFC 8680	680	-20/ +120	Ge, La
LFC 81000	1000	-20/ +120	Ge, La

### Special oils

Designation	ISO VG	Temperature (°C)	to be used for
LFC 41068 <sup>1)</sup>	68	-35/ +120	Hy, Um, Ge, Ke
VP 784 <sup>2)</sup>		-10/ +80	oil with grease
VP 785 <sup>2)</sup>		-20/ +120	cylinder bearer
VP 790	32		aluminium work

1) Four based oil, biodegradable  
2) with H1-approval  
3) contains LA 1 and ester based oil

## Lubricating concentrates

Designation	ISO VG	Temperature (°C)	for mineral oils of ISO VG
LA 1	68	-20/ +120	46, 68, 100
LA 4	150	-20/ +120	100, 150, 220
LA 7	320	-10/ +120	220, 320, 460, 680
LA 8		-5/ +80	(adhesive lubricant)
LA 8P		-10/ +80	(adhesive lubricant)
LA 8H1 with H1-approval		-10/ +80	(adhesive lubricant)

The LA-concentrates are miscible with mineral oils (excluded: hypoid oils). LA 1, LA 4 and LA 7 will be added approx 15% to 20%, LA 8 and LA 8P approx 5% to 8%. Border line lubrication characteristics will be improved considerably.

Temperature indications represent average values. Please contact us.

### Legend:

Pn = pneumatic, Hy = hydraulic, Um = circulation, Ge = gearboxes, Sp = rinse oil, Ke = chains, La = bearing, Ko = compressor

## Lubricating greases

Designation	NLGI	lower Temp. (ca°C)*	upper Temp. (ca°C)*	shortt. Temp. (ca°C)*	ndm-value (rev.) (ca ndm)*	Base oil / thickener	Remarks
GLL 6	3:2	-15	100	130	300.000	M;Li	adhesive, long fibred, for roller / slide bearings, shakers, open lubricating points
GLL 7	3;2:1	-20	120	150	400.000	M;Li	multi-purpose grease for roller and slide bearings
GLL 10	2;1	-20	120	130	300.000	M;Li	MoS <sub>2</sub> -grease for roller and slide bearings under high working load
GLG 111		-20	80	130		M;Na	grease for all kind of gears: elevating spindles and feeding rods
GLG 113	thixotrop	-20	120	140		M;Na;Ph	for high speed and well sealed transmissions
GLG 16	0 bis 000	-20	80	120		M;Li	for gears under heavy work load; shows outstanding slide friction behaviour
GLS 35	2	-20	120	150	400.000	M;Li	universal grease for all kinds of roller- and slide bearings
GLS 37	1	10	80			M;oV	longfibred; for heavy loads, to be used with slide ways and slide bars
GLS 72						M;aoV	assembly- and disassembly paste for temperatures up to +1500°C
GLS 75	2	-20	120	150	400.000	M;Li	long term grease with high oxidation stability for high working pressure loads
GLS 135	2	-20	120	150	500.000	M;Li	for roller- and slide bearings under high working load
GLS 163	2	-20	130	150	400.000	M;Ph	for bearings and slide motions, under changing motions and directions
GLS 164	2	-15	150	190	>600.000	M;Ph	for high speed use with preferable temperature of +130°C
GLS 167	2	-15	130	180	100.000	M;aoV	best resistance to acids and alkalis; recommended for use with sterilizers
GLS 595	3;2;00	-40	250	300	100.000	PFE;oV	long term grease for high temp use miscible only with grease of same kind
GLS 732	2	-70	120	150	300.000	Si;Li	for refrigerating machines at utmost low temperatures; contains silicone
GLS 764	2	-40	180	300	>500.000	Si;Ph	high-temperature grease; contains silicone
GLS 795	3;2	-40	180	200	100.000	Si;oV	high-temperature grease; when in use with hot air, it is limited to 120°C
GLS 815	1	-20	80	130	100.000	PG;Na	special grease for UV-lacquering; undo lacquer; for bearings, gears, chains
GLS 835	2	-20	130	150	300.000	PG;Li	ideal under UV-exposure; friendly to lacquer, miscible with mineral oil grease
GLS 931	1	-40	90	120		PAO;Li	for stepper motors; especially plastic gears; paramount friction values
GLS 932	1	-40	130	150	300.000	PAO;Li	lubricating grease for aluminium / steel- and plastic / steel-pairings
GLS 962	2	-40	170	250	>600.000	PAO;Ph	lubrication of roller- and slide bearings in high-temperature areas
GLS 965	3;00	-40	170	250	>600.000	PAO;Ph	high-temperature grease for high loads in roller- and slide bearings
GLS 966	2	-40	160	230	>600.000	PAO;Ph	high-temperature grease for medium- till high speed bearings
GLS 993	1	-40	150	200	<100.000	PAO;oV	for pneumatic, bearings, gears, slide motions, bars and fittings

## Lubricating grease for the food processing industries

GLS 305		-5	120	180	100.000	M;oV;aoV	assembly for high alloy and brass joints; for cams and slide ways
GLS 364	2	-10	120	150	>600.000	M;Ph	H1-grease for cutter shaft bearings, slicers, sausage fillers, sterilizers
GLS 367	2;1;00;000	-10	130	180	100.000	M;aoV	H1-grease for roller- and slide bearings, guides even exposed to water
GLS 380	2;1	-10	120	180	200.000	M;Al	H1-grease, with preference for slide bearings with ferrous-non ferrous pairings
GLS 388	2;1	-10	100	130	200.000	M;Al	H1-grease, very adhesive, for slide bearings, bars, open cog wheels
GLS 794	3;2;1;0	-40	180	200	100.000	Si;oV	H1-silicone grease for slide motions, valves, guides, O-ring-assembly, etc.
GLS 867						PG;aoV	H1-assembly grease for EPDM-gaskets, can be well rinsed off
GLS 964	2	-20	130	150	500.000	PAO;Ph	synthetic H1-grease for roller- and slide bearings
GLS 967	1-2	-15	130	150	100.000	PAO;oV	H1-grease with extended resistance to water, acids and alkalis
GLS 993 H1	1	-40	150	200	<100.000	PAO;oV	H1-grease for pneumatic, bearings, gears, slide motions, bars, etc.

\*Basic values for preselection, consultation necessary: ndm = 1/2 (outside + internal average in mm) x revolutions per minute

Legend: M = Mineral oil, E = Ester, PAO = Poly-Alpha-Olefins, Si = Silicone, PFE = Perfluorether, PG = Polyglycol, PHE = Phosphate ester, Al = Aluminium, Li = Lithium, Na = Sodium, Ph = Polyurea, aoV = anorganic thickener, oV = organic thickener

Designation	General application	Properties
FLC 8 FLC 8 H1	chains under high load, cams and open cog wheels	(-20°C to +120°C); very adhesive and no spin-off until +80°C; highly loadable, good creeping and anti-corrosion properties; resistant to water; for chains under load and open lubricating points like cog wheels, cams, curve discs and barrel rings
FLC 95	high temperature-chains and slide rails	(-30°C to +150°C, short term +220°C); grease spray with good creeping, adhesion and EP properties for lubrication of chains, metal surfaces in high-temperature and hot air areas; particularly to recommend for shrinkage- and dryer tunnels
FLC 367 H1-spray	for food and beverage firms, as well as pharmacy	(-20°C to +130°C, short term +180°C); grease spray for lubrication of chains and slide ways exposed to very aggressive influences, extremely resistant to water, acids and alkalis (pH-frame 2-11 at 50°C)
FLC 400	hot embossing press devices, chains under high temperature	(up to +250°C, short term +300°C); metal surfaces must be absolutely clean before application!
FLC 675 R+S	chain cleaning agent	odourless, anti-corrosive cleaning agent for treatment of grease and oil mudded machinery components; a very thin interim lubrication film prevents the dry running during the cleaning process
FLC 700	silicone based slide fluid for paper, wood, rubber, fabrics	(after vaporation max. +170°C); relatively fast drying, a non-filthy sliding layer with good anti-corrosion capabilities will show up and have long standing effects
FLC 710	similar to FLC 700	properties similar to FLC 700; very short period of vaporation; much thinner consistency as FLC 700; can be used during regular production run
FLC 745 H1-Spray	silicone based slide fluid mainly for plastics	(after vaporation max. +170°C); physiologically harmless slide film remains, not glueing, odourless with good corrosion inhibitors
FLC 1010	gripper seats (printing industry), spindles, joints, chains	(-20°C to +120°C); extremely good creeping lubricant for fits to cope with utmost high work loadability; the creeping performance is rather limited on metal surfaces; free of resins and acids; does not bind any dirt particles or dust
FLC 1012	similar to FLC 1010	similar to FLC 1010
FLC 1014	oil spray with PTFE	(-20°C to +120°C); accepts high loads; best anti-corrosion- and sliding properties
FLC 1040	rust solvent	very effective rust solvent, with dewatering properties for rusted screws, bolts, guides, chains, etc.
FLC 1070	for highly loaded drive-, lift and transport chains; bearings	(-10°C to +120°C); very high AW- and anti-corrosion properties; excellent creeping abilities, free of resin and acids
FLC 3010 H1-spray	food making- and beverage industries; pharmacy	(-20°C to +120°C); oil spray with paramount creeping, enormous pressure resistance and anti-corrosive characteristics; resin and acid free, for transmission- and transport chains, hinges, spindles and guides
FLC 4010	chains, rollers and joints exposed to high-temperature	(-35°C to +180°C, short term +200°C); ester based oil spray offering good creeping and outstanding AW anti wear and anti-corrosion protection
FLC 8010	UV-installations	(-30°C to +130°C); well suited for UV-installations; high loadability of remaining film is ensured
MBF 370 H1-spray	food making and beverage industries	(-5°C to +120°C, preferably till +60°C); high effective, anti-corrosion- and grease agent under aggressive working conditions; contains PTFE; anti-static to dust and dirt, suitable for chains, cams and guides

# Lubricants for Industry and Handicraft - Product Survey

**Chemie-Technik and ELKALUB** Matchless high-performance lubricants, oil – and fuel additives hallmarked the beginning of "Chemie Technik GmbH" in 1956.

Since the focus on high-performance lubricants for industry and craftsmanship in the early 70s our products are sold under the brand ELKALUB.

**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** Noted for the answer to complicated lubricating tasks ELKALUB high-performance lubricants are the most popular choice. We develop and produce 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 present always a complex matrix of parameters with various influences. The selection of the proper lubricant requires extensive technical know-how with long-term working experience. Contact us or our partner in your country with your individual requirements for lubrication.



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



**ELKALUB High-Performance Lubricants**

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