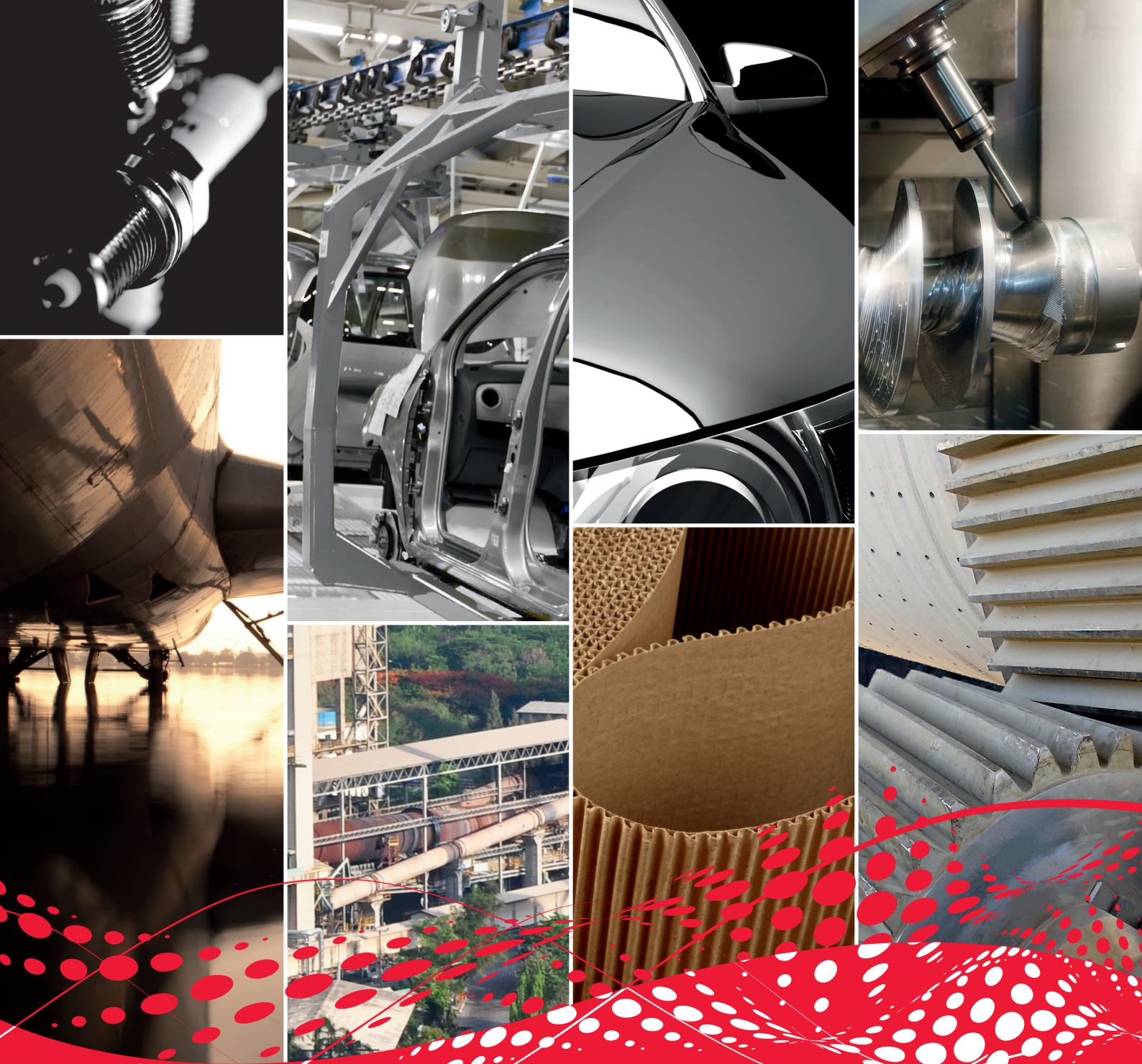

LUBRILOG

LUBRICATION ENGINEERING

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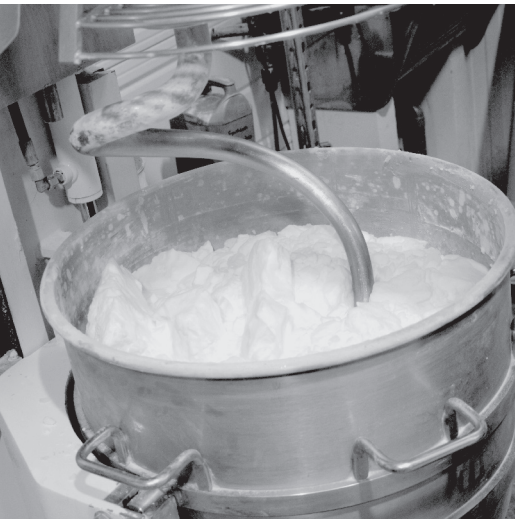

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SUMMARY

Specialized in the conception and the manufacturing of specialty lubricants, primarily focused on perfluorinated lubricants, LUBRILOG offers full range of advanced lubricant solutions with a customized approach to meet the challenges of demanding industrial needs.

Since the inception of the company in the year 1987 by a group of engineers, LUBRILOG successfully conceived a range of unparalleled lubricant formulations for the interest of specific industries such as Nuclear, Aerospace, Automotive, Pharma etc. Thanks to a full range of high performance lubricants LUBRILOG offers the scope to improve the productivity and efficiency of the industrial equipment for all critical applications.

As a family-owned company with an emphasis on better reactivity and ease of communication we intend to contribute for the growth of our partners with complete serenity.
LUBRILOG's team of application engineers share our global know how by assisting our clients to choose optimal lubricant solutions.
Additionally, our in-house logistics and supply chain experts ensure a timely supply and support to more than 52 countries all around the year.

Our robust organizational values along with renewed production equipment allow us to propose optimum quality specialty lubricants to our clients.
In its quest for constant improvement in quality certification LUBRILOG aims to achieve IATF 16949 by moving ahead of ISO 9001 v2015.

LUBRILOG is committed to do better tomorrow than yesterday in pursuit of Tribological excellence!

GREASES

OILS

SPECIALIZED FLUORINATED GREASES FOR EXTREME USES

FLUOSTAR® represents a range of high quality greases based on specific perfluorinated oils.
FLUOSTAR® greases are recommended when the other lubricants, mineral or synthetic, cannot meet the most demanding specifications.

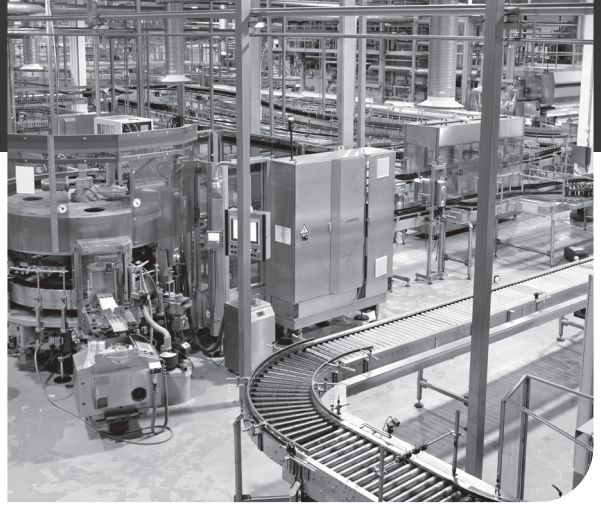
Products	Consistency (NLGI Grade)	Viscosity 40° C mm²/s	Thickener	Base oil	Temperature range °C		% Evaporation after 22H	Advantages
					Mini	Maxi		
FLUOSTAR L 2 L	2	15	PTFE	PFPE	-60	120	10/120°C	• Exceptional stability at high temperatures • Excellent chemical inertness to both gases and aggressive liquids • Non-flammable • Total compatibility with plastics and elastomers • Very long durability • Very low friction • Good viscosity - temperature behavior • Very low vapor pressure • Good resistance to nuclear radiations
FLUOSTAR 2 L	2	150	PTFE	PFPE	-40	240	1,5/204°C	
FLUOSTAR H 2 PLUS	2	400	PTFE	PFPE	-30	260	0,9/204°C	
FLUOSTAR FH 2	2	500	PTFE	PFPE	-30	300	0,5/204°C	
FLUOSTAR LX 2	2	100	PTFE	PFPE	-50	200	2,5/149°C	
FLUOSTAR MX 2	2	200	PTFE	PFPE	-50	250	1,5/204°C	
FLUOSTAR HX 2	2	400	PTFE	PFPE	-40	300	0,5/204°C	
FLUOSTAR SX 2	2	310	PTFE + Silica Gel	PFPE	-60	320	0,4/204°C	
FLUOSTAR SG 2	2	310	Silica Gel	PFPE	-60	320	0,4/204°C	
FLUOSTAR XL	2	32	PTFE	PFPE	-85	150	1,5/149°C	
FLUOSTAR XM	2	200	PTFE	PFPE	-65	280	0,5/204°C	
FLUOSTAR XS	2	700	PTFE	PFPE	-50	320	0,3/204°C	

STANDARD FLUORINATED GREASES FOR EXTREME USES

FLUOLOG® represents a range of greases based on perfluorinated oils.
FLUOLOG® greases are recommended when the other lubricants, either synthetic based, cannot meet the desired specifications.

Products	Consistency (NLGI Grade)	Viscosity 40° C mm^2/s	Thickener	Base oil	Temperature range °C		% Evaporation after 22H	Advantages
					Mini	Maxi		
FLUOLOG K 258	2	8	PTFE	PFPE	-70	80	10 / 90°C	• Exceptional high temperature stability. • Excellent chemical inertness (gas and aggressive liquids) • Non-flammable • Total compatibility with plastics and elastomers • Very long life time • Very low friction • Very low vapor pressure • Good resistance to nuclear radiations
FLUOLOG K 259	2	15	PTFE	PFPE	-60	120	9 / 120°C	
FLUOLOG KEL	2	15	PTFE	PFPE	-60	120	8 / 120°C	
FLUOLOG LMX 2	2	85	PTFE	PFPE	-70	220	3 / 204°C	
FLUOLOG KEM	2	90	PTFE	PFPE	-40	200	2 /149°C	
FLUOLOG LX 2	2	90	PTFE	PFPE	-40	200	2 / 149°C	
FLUOLOG KES	2	220	PTFE	PFPE	-30	250	0,7 / 149°C	
FLUOLOG 2 L	2	220	PTFE	PFPE	-30	250	0,7 / 149°C	
FLUOLOG MX 2	2	220	PTFE	PFPE	-30	300	0,5 / 149°C	
FLUOLOG MG 2	2	220	Gel	PFPE	-30	250	0,5 / 149°C	
FLUOLOG K 400	2	395	PTFE	PFPE	-30	260	0,9 / 204°C	
FLUOLOG K 500	2	500	PTFE	PFPE	-30	300	0,5 / 204°C	

FLUOSTAR® FOOD GRADE



PERFLUORINATED H1 GREASES FOR EXTREME APPLICATIONS

FLUOSTAR® regroups a range of premium quality greases based on specific perfluorinated oils. FOOD GRADE series should be used for the lubrication of bearings, seals and various assemblies operating in extreme conditions with potential risks of incidental contact with food. FLUOSTAR® FG / SX and LUBRINOX greases were approved NSF H1 along with all the benefits of a classic FLUOSTAR® range.

Products	Consistency (NLGI Grade)	Viscosity 40° C mm^2/s	Thickener	Base oil	Temperature range °C		% Evaporation after 22H	Advantages
					Mini	Maxi		
FLUOSTAR FG 2	2	500	PTFE	PFPE	-30	300	0,5/204°C	• Exceptional stability at high temperatures. • Excellent resistance to water and chemicals. • Non-flammable. • Full compatibility with plastics and elastomers. • Very long durability. • Very low friction. • Good viscosity-temperature behavior. • Very low vapor pressure • Good resistance to nuclear radiation. • H1 approval
FLUOSTAR 2 L	2	150	PTFE	PFPE	-40	240	1,5/204°C	
FLUOLOG K 240	2	240	PTFE	PFPE	-30	260	1,3/204°C	
FLUOLOG K 500	2	500	PTFE	PFPE	-30	300	0,3/204°C	
FLUOSTAR SX 1	1	310	PTFE + Gel	PFPE	-60	320	0,4/204°C	
FLUOSTAR SX 2	2	310	PTFE + Gel	PFPE	-60	320	0,4/204°C	
LUBRINOX 2	2	510	Gel	PFPE	-30	350	0,5/204°C	

GRAPHITE GREASES FOR OPEN GEAR DRIVES

The **GRAFOLOG®** range of greases is dedicated to the lubrication of heavy duty open gear drives used in the following industries : Cement, ore, steel, coal lines in the thermal stations, fertilizers, chemistry (lateral transmissions of furnaces, grinders, dryers, coolers, mixers and rotating tubes in general)

Products	Consistency (NLGI Grade)	Viscosity 40°C mm²/s	Thickener	Base oil	Temperature range °C		Service	Running in	Priming	Bath for circulation	Pulverisation	Weld load 4 balls (daN)	Advantages
					Mini	Maxi							
GRAFOLOG H 00 LT	00	130	Aluminium Complex	Semi-synthetic	-40	150	x				x	> 700	• High purity mono crystalline graphite • Exceptional resistance to seizing • Excellent antiwear and extreme pressure resistance properties • Resistance to high temperatures • Excellent performance under heavy loads and slow speeds • Contains neither heavy metals nor bitumen
GRAFOLOG H 0	0	750	Aluminium Complex	Mineral	-20	120	x				x	> 620	
GRAFOLOG H 0 +	0/1	1100	Aluminium Complex	Mineral	-10	180	x				x	> 620	
GRAFOLOG H 2200	0/00	2200	Aluminium Complex	Mineral	0	180	x				x	> 620	
GRAFOLOG H 10 K	0/00	10000	Aluminium Complex	Mineral	0	180	x				x	> 700	
GRAFOLOG M FLUID	000	3000	Aluminium Complex	Mineral	-10	120	x			x		> 800	
GRAFOLOG MT FLUID	000/00	7500	Aluminium Complex	Mineral	0	140	x			x		> 800	
GRAFOLOG H 00 R	00	320	Aluminium Complex	Mineral	-10	200		x			x	> 800	
GRAFOLOG R FLUID	000	2000	Aluminium Complex	Mineral	-10	120		x		x		> 800	
GRAFOLOG H 1	1	1100	Aluminium Complex	Mineral	-20	120			x			> 500	

VERY LONG DURABILITY AND ENERGY SAVING GREASES

STARPOLY ® is a range of a new generation of synthetic greases soapless, designed to reduce friction and energy saving to the maximum, as well as increasing your rolling life time

Products	Consistency (NLGI Grade)	Viscosity 40° C mm^2/s	Thickener	Base oil	Temperature range °C		Rotation factor	Advantages
					Mini	Maxi		
STARPOLY NTG 2	2	50	Polymer	PAO	-35	120	> 1 000 000	• Very long durability • Good compatibility with plastics and elastomers • Outstanding adherence • Outstanding protection against corrosion • Compatible with «soap» greases • Reduction of energy consumption • Reduction of the frequency of lubrication • Optimisation of the lubricating film
STARPOLY NTG 2 J	2	50	Polymer	PAO	-35	120	> 1 000 000	
STARPOLY NTG 2 M	2	50	Polymer	PAO	-35	120	> 1 000 000	
STARPOLY NTG 2 EP	2	50	Polymer	PAO	-35	120	> 800 000	

MULTIFONCTIONAL GREASES FOR COMMON APPLICATIONS

LOGREASE is a range of multifunctional greases which offers a combination of benefits : high temperature resistance, load resistance and resistance to water.

Products	Consistency (NLGI Grade)	Viscosity 40° C mm²/s	Thickener	Base oil	Temperature range °C		Rotation factor	Advantages
					Mini	Maxi		
LOGREASE LT 2	2	22	Lithium	Mineral	-40	140	1 000 000	• Multifunctional greases • Wide range of operating temperatures • Excellent protection against corrosion • Good resistance to water
LOGREASE 2	2	130	Lithium	Mineral	-30	130	500 000	
LOGREASE M 2	2	130	Lithium + MoS2	Mineral	-30	130	400 000	
LOGREASE WHITE 2	2	130	Lithium	Mineral	-20	130	400 000	
LOGREASE WHITE 2 TF	2	130	Lithium + PTFE	Mineral	-20	140	400 000	
LOGREASE LCL 2	2	140	Lithium / Calcium	Mineral	-20	140	400 000	
LOGREASE LCM 2	2	310	Lithium / Calcium	Mineral	-20	140		

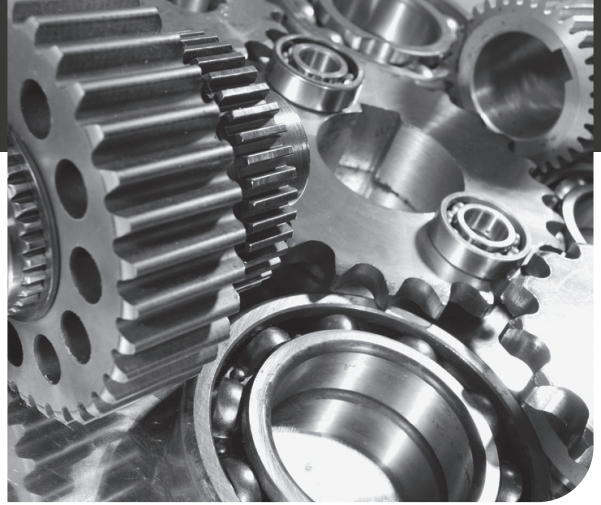
HIGH QUALITY GREASES FOR COMMON USE

STARPLEX® greases are commonly used in mechanical and heavy industries. They are mainly used for the medium and high temperature applications in presence of water and/or steam.

Products	Consistency (NLGI Grade)	Viscosity 40° C mm^2/s	Thickener	Base oil	Temperature range °C		Rotation factor	Advantages
					Mini	Maxi		
STARPLEX G 2	2	110	Lithium Complex	Mineral	-20	180	> 400 000	• Water resistance • Highly adhesive • Reinforced anti-corrosion protection • Excellent inherent antiwear and extreme pressure properties
STARPLEX G 2 M	2	110	Lithium Complex + MoS_2	Mineral	-20	180	> 400 000	
STARPLEX GC 2	2	220	Lithium Complex	Mineral	-20	150	400 000	
STARPLEX PG 1	1-2	360	Lithium / Calcium	PAG	-40	150	300 000	
STARPLEX BXM 2	1-2	220	Barium Complex	Semi Synthetic	-20	150	400 000	
STARPLEX GM 2	2	150	Polyurea	Mineral	-20	180	500 000	• Long term lubrication • Extension of the lubrication frequencies • High thermal resistance • High mechanical stability
STARPLEX GM 500	1	500	Polyurea	Mineral	-20	180	300 000	
STARPLEX GM 500 TF 1	1	500	Polyurea + PTFE	Mineral	-20	200	< 300 000	
STARPLEX GS 2	2	100	Polyurea	PAO / Ester	-40	200	> 600 000	
STARPLEX HPS 2	1-2	400	Polyurea	PAO	-40	180	400 000	

HIGH QUALITY GREASES FOR GENERAL USE

Products	Consistency (NLGI Grade)	Viscosity 40° C mm^2/s	Thickener	Base oil	Temperature range °C		Rotation factor	Advantages
					Mini	Maxi		
STARPLEX BT 2	2	180	Bentone	Mineral	-30	150	> 300 000	• No dropping point • Resistance to acid and alkaline bases
STARPLEX BT 2 M	2	180	Bentone + MoS_2	Mineral	-30	150	> 300 000	
STARPLEX HT 2 MEDIUM	2	150	PTFE	Ester	-40	210	< 500 000	• High thermal resistance • Low friction coefficient • Less expensive than PFPE / PTFE greases
STARPLEX HT 2 HEAVY	2	460	PTFE	Ester	-20	230	< 250 000	
STARPLEX HT 462	2	460	PTFE	Ester	-20	200	350 000	
STARPLEX WT 2	1/2	180	Calcium Complex + PTFE	Mineral Codex	-20	150	-	• ACS registered for drinking water application
STARPLEX EST 2	2	1300	Gel	Ester	-40	200	-	• Automotive application



MULTI-PURPOSE, LONG-LASTING, HIGH-TECH GREASES

STARGREASE® range is made from semi-synthetic base oils and high technology calcium sulfonate complex soaps. Thanks to their composition, these greases have exceptional, inherent antiwear and extreme pressure properties coupled with excellent resistance to heat, steam and diluted chemical agents.

Products	Consistency (NLGI Grade)	Viscosity 40° C mm^2/s	Thickener	Base oil	Temperature range °C		Speed factor (N.Dm)	Advantages
					Mini	Maxi		
STARGREASE LIGHT	2	68	Calcium Sulfonate Complex	PAO / Mineral	-40	150	> 600 000	• Excellent protection against corrosion • High thermal and mechanical stability • Very high pressures resistance • Water resistance • No heavy metals • Long service life even at high temperatures • Highly adhesive • Excellent alternative to the greases based on Barium soap
STARGREASE MEDIUM	2	220	Calcium Sulfonate Complex	PAO / Mineral	-25	150	> 400 000	
STARGREASE HEAVY	3	1000	Calcium Sulfonate Complex	PIB / Mineral	-20	150	> 250 000	
STARGREASE HV	2	420	Calcium Sulfonate Complex	Mineral	-25	180	> 350 000	
STARGREASE LSK 2	2	460	Complex / Complex	PIB / Mineral	-20	160	> 100 000	
STARGREASE LSK 2 M	2	460	Complex / Complex + MoS_2	PIB / Mineral	-20	160	> 100 000	

GREASES FOR SMALL MECHANISMS AND COMPOSITE MATERIALS

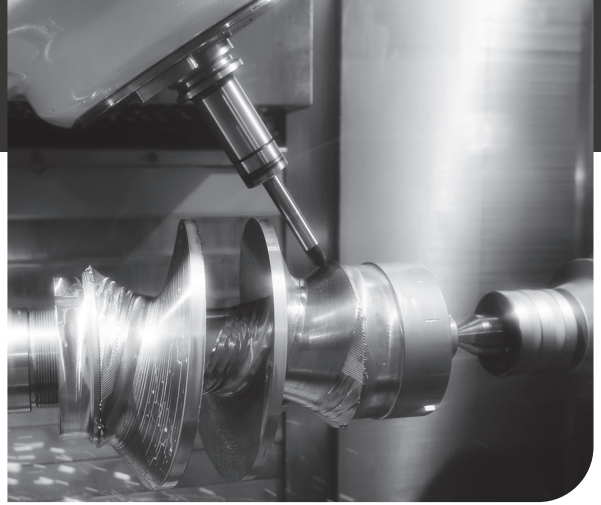
PLASTOGREASE® / PLASTOBASE® range was formulated from saponified synthetic oils for a variety of industrial applications such as automotive, micro mechanics and connectors. These greases are used wherever the plastics are involved or when a low friction at low temperature is required.

Products	Consistency (NLGI Grade)	Viscosity 40° C mm²/s	Thickener	Base oil	Temperature range °C		Rotation factor	Advantages
					Mini	Maxi		
PLASTOBASE 32	2	26	Lithium	Semi Synthetic	-50	130	>800 000	• Good compatibility with plastics and elastomers • Good thermal and mechanical stability • Very low coefficient of friction • Excellent anti-noise properties • Can be used at very low temperatures • Very good viscosity index • Good adhesion, depending on grades
PLASTOBASE 760	1-2	760	Lithium	Semi Synthetic	-40	150	>250 000	
PLASTOGREASE BASE	2	22	Lithium	PAO	-50	150	>800 000	
PLASTOGREASE TIXO	2	32	Lithium + Gel	PAO	-50	150	>800 000	
PLASTOGREASE TAC	2	46	Lithium	PAO	-50	150	>500 000	
PLASTOGREASE TF	2	32	Lithium + PTFE	PAO	-50	150	>500 000	
PLASTOGREASE TFH	2	750	Lithium + PTFE	PAO	-40	150	>250 000	

HIGH PERFORMANCE SYNTHETIC GREASES

PLASTOPLEX® range offers a low friction coefficient favouring the energy savings and long durability of the bearings. They are also applicable for the lubrication of plastic pieces in the automotive industry.

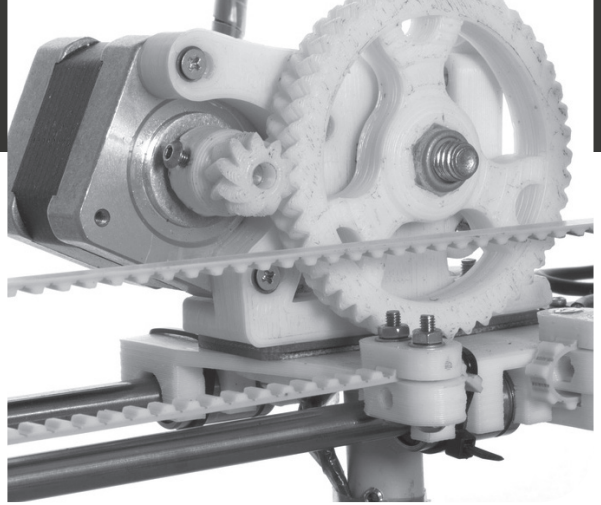
Products	Consistency (NLGI Grade)	Viscosity 40° C mm^2/s	Thickener	Base oil	Temperature range °C		Rotation factor	Advantages
					Mini	Maxi		
PLASTOPLEX 32	2	32	Lithium Complex	PAO	-50	160	> 800 000	• Good compatibility with plastics and elastomers • Good thermal and mechanical stability • Very low friction coefficient • Excellent anti-noise properties • Applicable even in the low temperatures • Very good viscosity index • Good adherence following to the grades
PLASTOPLEX 32 TF	2	32	Lithium Complex + PTFE	PAO	-50	160	> 800 000	
PLASTOPLEX 100	2	100	Lithium Complex	PAO	-50	160	> 800 000	
PLASTOPLEX 100 TF	2	100	Lithium Complex + PTFE	PAO	-50	160	> 800 000	
PLASTOPLEX 220	2	220	Lithium Complex	PAO	-50	160	> 500 000	
PLASTOPLEX 220 TF	2	220	Lithium Complex + PTFE	PAO	-50	160	> 500 000	
PLASTOPLEX 460	2	460	Lithium Complex	PAO	-40	160	> 500 000	
PLASTOPLEX 460 TF	2	460	Lithium Complex + PTFE	PAO	-40	160	> 500 000	



VERY HIGH SPEED BEARING GREASES

SPEED® range has been designed from synthetic saponified oils for the lubrication of very high speed bearings (N.Dm : 1 000 000). These lubricants offer low friction and low torque even at very low temperatures.

Products	Consistency (NLGI Grade)	Viscosity 40° C mm^2/s	Thickener	Base oil	Temperature range °C		Advantages
					Mini	Maxi	
SPEED GB 1	1	46	Barium Complex	PAO	-45	160	• Applicable for very high speeds • High thermal and mechanical stability • Very low coefficient of friction • Excellent anti-noise properties • Applicable for very low temperatures • Very good viscosity index
SPEED GB 2	2	46	Barium Complex	PAO	-45	180	
SPEED LP 2	2	18	Lithium	PAO	-60	150	
SPEED GL 2	2	14	Lithium	Ester	-70	130	



SILICON PASTES

Conceived from a selection of silicon oils, the complete range of **SILOG®** and **STARSIL®** greases serve a wide range of applications involving friction. They reduce friction, offer sealing and serve as assembly aid for mounting modern materials such as plastics, elastomers, mixed assemblies (metals/plastics) over a wide range of temperatures.

Products	Consistency (NLGI Grade)	Viscosity 25°C mm^2/s	Thickener	Base oil	Temperature range °C		Speed factor (N.dm)	Advantages
					Mini	Maxi		
SILOG 2	2	350	Gel	Silicone	-50	180	>300 000	• Very good compatibility with plastics and elastomers • Very good stability to extreme temperatures • Excellent anti-noise properties • Excellent viscosity index • Good adherence according to grades • Very low friction in presence of PTFE - thickener
SILOG 1352	1-2	5000	Gel	Silicone	-50	180	>200 000	
SILOG 1352 WTF	1-2	5000	Gel + PTFE	Silicone	-50	180	> 200 000	
SILOG 33	2	350	Lithium	Silicone	-40	200	>500 000	
SILOG 111	2	10 000	Gel	Silicone	-55	200	>100 000	
STARSIL 2	2	350	PTFE	Silicone	-50	180	>300 000	
STARSIL HT 2	2	125	PTFE	Silicone	-50	200	>600 000	

MOUNTING PASTES

PIGMENTED ANTI CORROSIVE MOUNTING PASTES

These compounds, incorporating a high amount of mineral or organic pigments are particulary developped for the applications involving the metallic assemblies exposed to high temperatures or aggressions such as :
- Fretting corrosion
- Oxidation
- Galvanic corrosion

Products	Consistency (NLGI Grade)	Viscosity 40° C mm²/s	Thickener	Base oil	Temperature range °C		Advantages
					Mini	Maxi	
CERILOG	3	460	Complex calcium sulfonate	Mineral	-30	160	• No heavy metals. • Efficient even after liquid phase disappearance. • Facilitate both electric and thermal conductivity. • Excellent anti-seizing properties • Eliminate static electricity • Exceptional anti-corrosion properties
CERILOG BA	2-3	50	Barium complex	PAO	-40	180	
CERILOG GL	1-2	14	Lithium	Mineral / Ester	-70	120	
CERILOG NB	2	130	Lithium + Boron Nitride	Mineral	-20	1200	
CUPROLOG G 1	1	150	Lithium + Cooper	Mineral	-30	1000	
ALUSTAR G 1	1	100	Lithium + Aluminium	Mineral	-30	700	
GRAFINOX G 1	1	68	Gel + Stainless Steel	PAO	-50	1000	
GALVASIL P	2	750 (25°C)	Gel + Zinc	Silicone P	-60	650	• Specific for galvanic corrosion problems
LUBRINOX 2	2	510	Gel	PFPE	-30	350	• Specific for INOX/INOX assembly

LUBRICATION OF MATERIALS UNDER NUCLEAR RADIATION

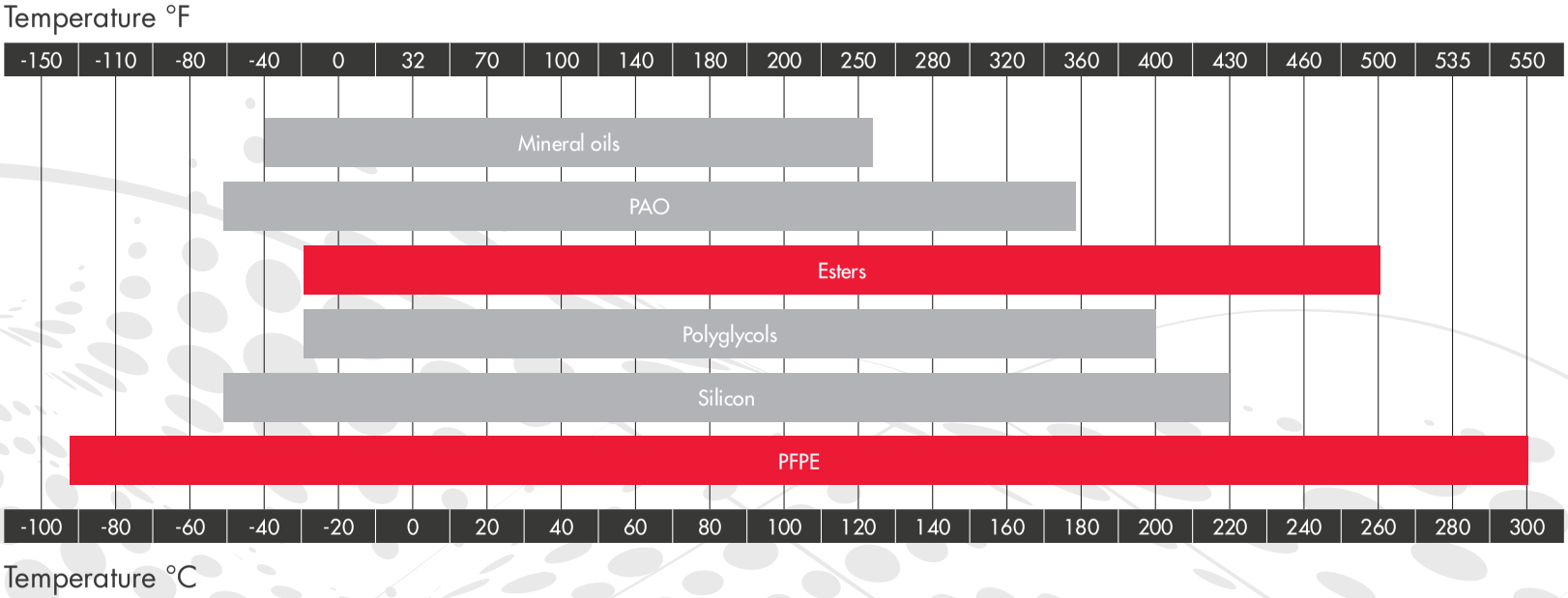
Recommended lubricants depending on the absorbed radiation dose	Low speed bearing N.dm <100 000	High speed bearings N.dm > 100 000	Gear box		Open gears	Ball-joints, chains, slides....	Screws, bolted parts, shaft seal.....
			Normal loads or oil	Heavy loads or grease			
0 < D ≤ 10 K.Gray	LUBRILOG LX CEHB 3 NG	LUBRILOG LX CEHB 2 NG	Conventional lubricants				LUBRINOX 2* FLUOSTAR FH 2*
10 < D ≤ 1000 K.Gray	LUBRILOG LX EEHH 2 FLUOSTAR FH 2*	LUBRILOG LX EEHH 2 FLUOSTAR FH 2*	LUBRILOG LY PAO 68N LUBRILOG LY F 220*	LUBRILOG LX EEHH 00 FLUOSTAR 0 L +*	LUBRILOG LX EEHH 2 FLUOSTAR 2 L +*	LUBRILOG LX EEHI 2 FLUOSTAR FH 2* FLUOSTAR CHAIN 320*	
1000 < D ≤ 10 000 K.Gray	LUBRILOG LX AGFH 2	LUBRILOG LX AGFA 2	LUBRILOG PY PPE 360	LUBRILOG LX AGFH 00	LUBRILOG LX AGFI 2	LUBRILOG LX AGFI 2	
D > 10 000 K.Gray	Consult LUBRILOG						

* Lubricants without hydrogen

All lubricants mentioned in the above table were certified by the group AREVA

TEMPERATURES RANGE

Main Base Oils



MISCIBILITY

Main Base Oils

Base oils	Fluorinated	PPE	Silicones (phenyl)	Silicones (methyl)	Polyglycols	Esters	Mineral
Mineral	No	Yes	Yes	No	No	Yes	
Esters	No	Yes	Yes	No	Yes		Yes
Polyglycols	No	No	No	No		Yes	No
Silicones (methyl)	No	No	Yes		No	No	No
Silicones (phenyl)	No	Yes		Yes	No	Yes	Yes
PPE	No		Yes	No	No	Yes	Yes
Fluorinated		No	No	No	No	No	No

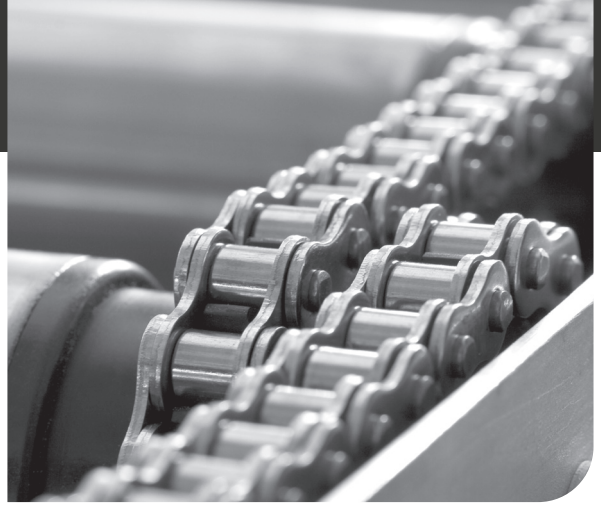
LUBRILOG LY F ...

RANGE OF FLUORINATED OILS WITH EXCEPTIONAL PERFORMANCES

The **LUBRILOG LY F** oils range is made from colourless, odourless Perfluorinated Polymers. These polymers are chemically neutral and show very good thermal stability along with excellent tribological performances. They are offered in a wide range of viscosities and offer superior quality and performance compared to other synthetic oils no matter the substrate or the environment. They are non-miscible with other lubricants.

Products	Viscosity 40° C mm^2/s	Viscosity index	Mass volume (20° C)	Temperature range °C		% Evaporation (after 22h)	Advantages
				Mini	Maxi		
LUBRILOG LY F 15	15	60	1,87	-60	120	9 (120°C)	• Chemically inert • Totally non-flammable • Excellent coefficient of friction • Excellent anti-seizing properties • Low vapor tension • Total compatibility with plastics and elastomers • Very long life time of the lubricant's film
LUBRILOG LY F 35	35	80	1,88	-45	150	15 (149°C)	
LUBRILOG LY F 90	90	108	1,90	-40	200	15 (204°C)	
LUBRILOG LY F 160	160	120	1,91	-30	220	3 (204°C)	
LUBRILOG LY F 220	220	130	1,91	-30	250	1,5 (204°C)	
LUBRILOG LY F 270 HT	270	130	1,91	-30	260	< 0,6 (204°C)	
LUBRILOG LY F 510 HT	510	136	1,92	-20	300	< 0,5 (204°C)	

FLUOSTAR CHAIN / FLUOSTAR DILUTION



SPECIFIC FLUORINATED OILS RANGE

These oils are made from perfluorinated polymers that show very good thermal stability. They evaporate very slowly and leave no residue even at very high temperatures. They are mainly used for chain lubrication of ovens or drying tunnels when cleanliness is critical. These oils provide efficient protection against corrosion.

The FLUOSTAR DILUTION range was specifically designed for the optimization of the mounting aid of plastic pieces and eletrical contact.

Products	Viscosity 40° C mm²/s	Viscosity index	Mass volume (20° C)	Temperature range °C		% Evaporation (after 22H)	Advantages
				Mini	Maxi		
FLUOSTAR CHAIN HD*	32	-	1,88	-55	300	< 0,5 % (204°C)	• Very low evaporation • Totally non-flammable • Excellent friction coefficient • Excellent anti-seizing properties • Improve the lifetime of the chains. • Leave no residue • Very low consumption
FLUOSTAR CHAIN 320	320	135	1,92	-25	300	< 0,5 % (204°C)	
FLUOCOR S*	280	-	1,75	-40	250	< 1 % (204°C)	
LUBRILOG LY F 220 DVY/10*	220	130	1,92	-30	200	-	• Mounting aid solution • Reduction of the assembly efforts • Perfect compatibility with elastomers • Silicone-free
FLUOSTAR DILUTION 91 FLUO	90	108	1,90	-40	200	-	
FLUORING D/20**	220	130	1,91	-30	250	-	

* Contains a vector solvent
** Contains a vector solvent + UV tracer
(All the values are given after evaporation of the vector solvent)

SYNTHETIC OILS FOR HIGH TEMPERATURE CHAINS

The oils from the range **ESTAR®** are made from synthetic (special ester) base oils. These oils are very resistant to heat and evaporation even in presence of steam. **ESTAR®** oils incorporate special blend of additives which generate no residue at high temperature up to 250°C.

Products	Viscosity 40° C mm²/s	Viscosity index	Density (20° C)	Temperature range °C		Flash point	% Volatility (204°C/6,5h)	Advantages
				Mini	Maxi			
ESTAR 125 HT	125	120	0,97	-40	280	> 280°C	2,1	• Excellent protection against corrosion • High thermal stability • Very low residue content • Water resistance • Very high flash point
ESTAR 125 SUPER PLUS	125	120	0,96	-40	290	> 290°C	0,4	
ESTAR 250 SUPER	250	120	0,96	-40	280	> 280 °C	1,7	
ESTAR 250 SUPER PLUS	255	120	0,96	-40	290	> 290°C	0,5	
ESTAR 250 PS	250	127	0,95	-35	280	> 280°C	1,5	• Specific for paint shop application
ESTAR 250 XT	260	96	0,97	-15	305	> 305°C	0,2	• Extreme temperature application
ESTAR 400 PP	400	115	0,95	-40	250	> 290°C	0,4	• Specific for BOPP chains
ECOBIOL 220 NF	220	95	0,97	-35	280	> 305°C	1	• High temperature food grade
CHAIN HT 220 F	200	123	0,96	-40	280	> 275°C	2,0	• Specific for IS Machine (BOTTERO, EMHART,...)
ESTAR CHAIN OIL 100 NF	100	94	0,96	-30	280	285°C	1,9	• Specific for continuous press in wood panels industry (SIEMPELKAMP, DIEFFENBACHER,...)
ESTAR BAND OIL 260	260	123	0,95	-35	280	> 285°C	1,6	

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ADHESIVE OILS FOR CHAINS

The oils from the **VISCOL®** range are made from selected mineral base oils. They present exceptional adhesive properties thanks to their additives' stringiness. These oils protect efficiently against corrosion even in saline environment or in presence of steam up to 150°C. They also show excellent antiwear extreme pressure properties for all types of chains.

Products	Viscosity 40° C mm²/s	Viscosity index	Density (20° C)	Temperature range °C		Advantages
				Mini	Maxi	
VISCOL 68 WR	68	83	0,90	-25	150	• Excellent protection against wear and corrosion. • Water repellent • Highly adhesive. • Resistance to washing out. • Paint compatible.
VISCOL 150 WR	150	63	0,90	-10	150	
VISCOL 460 WR	460	96	0,91	-5	150	
VISCOL 4200	4200	140	0,91	-5	160	
VISCOL 4200/75 S	4200*	140*	0,91*	-5*	160*	

* After evaporation of the solvent

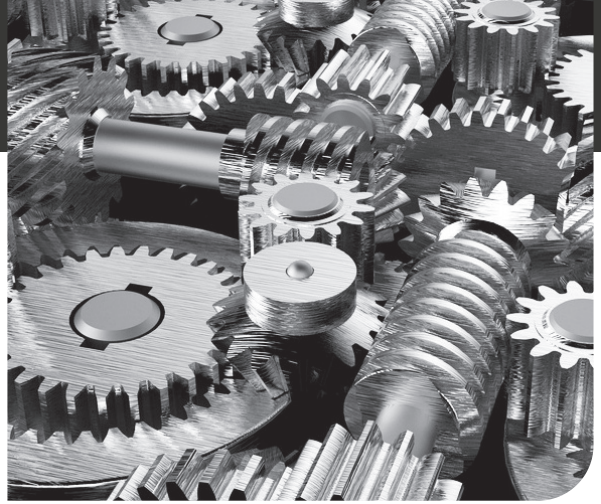
OILS FOR OPEN GEAR DRIVES

GEAR FLUID® is a range of high viscosity oils for the lubrication of heavy duty open gear drives used in the industries such as cement,ore,steel,thermal stations (coal lines), mineral processing, fertilizers, chemistry (lateral furnace transmissions, grinders, dryers, coolers, mixers, rotary kilns and ball mills in general).

Products	Viscosity 40° C mm^2/s	Viscosity index	Density (20° C)	Temperature range °C		Service	Running in	Priming	Bath for circulation	Pulverisation	4 ball weld test	Advantages
				Mini	Maxi							
GEAR FLUID 180	4600	135	0,92	-5	100	x			x	x	> 800	• Exceptional resistance to seizing • Excellent extreme pressure resistance and antiwear properties • Ideal for heavy loads and slow speeds • Contains neither heavy metals nor bitumen
GEAR FLUID 550	17000	180	0,92	0	120	x			x	x	> 800	
GEAR FLUID 1000	25000	230	0,92	0	120	x			x		> 800	
GEAR FLUID 550 D	17000*	180*	0,92*	-10*	120*	x				x	> 800*	
GEAR FLUID 1000 D	25000*	230*	0,92*	0*	120*	x				x	> 800*	
GEAR FLUID R	680	100	0,93	-15	100		x		x	x	> 800	
GEAR FLUID P	25000	230	0,92	0	120			x			> 800	

* After evaporation of the solvent

LUBRILOG PG OIL



SYNTHETIC OILS FOR OPEN GEAR DRIVES AND HIGH EFFICIENCY BEARINGS

Elaborated from polyglycol, these oils are essential for the lubrication of torque open gear drives, worm gears or other mechanisms where friction is a critical parameter. They can be used with some elastomers. These oils are not compatible with mineral oils and single-component paints.

Products	Viscosity 40° C mm²/s	Viscosity index	Density (20° C)	Temperature range °C		4 ball wear test	Load stage	Advantages
				Mini	Maxi			
LUBRILOG PG OIL 100	100	220	1,05	-40	160	0,30	12	• Absorbs humidity • Very high viscosity index • Excellent coefficient of friction • Excellent anti-seizing properties • Absence of residues at high temperatures • Improved efficiency of open gear drives • Long service life
LUBRILOG PG OIL 150	150	220	1,05	-34	170	0,30	12	
LUBRILOG PG OIL 220	220	230	1,05	-35	170	0,35	12+	
LUBRILOG PG OIL 320	320	240	1,05	-33	170	0,35	12+	
LUBRILOG PG OIL 460	460	250	1,05	-30	180	0,35	12+	
LUBRILOG PG OIL 680	680	260	1,05	-30	180	0,35	13	
LUBRILOG PG OIL 1000	1000	280	1,05	-30	180	0,35	13	

LUBRILOG LY PAO ... AW

HIGH PERFORMANCE SYNTHETIC OILS

Our LUBRILOG LY PAO ... AW range offers a high resistance to both high as well as low temperatures, resistance to heavy loads, antiwear and anticorrosion properties. These oils are not biodegradable. Besides, they remain perfectly compatible with mineral oil based lubricants. These oils offer a very long lifetime for the lubrication of heavy duty gears and bearings.

Products	Viscosity 40° C mm²/s	Viscosity index	Density (20° C)	Temperature range °C		4 ball wear test	Load stage	Advantages
				Mini	Maxi			
LUBRILOG LY PAO 68 AW	68	134	0,86	-55	150	0,3	12	• No heavy metals • High viscosity index • Low friction coefficient • Excellent anti-seizing properties • Suitable for low and high temperatures • High compatibility with plastics and some elastomers
LUBRILOG LY PAO 100 AW	100	130	0,87	-50	150	0,3	12	
LUBRILOG LY PAO 150 AW	150	129	0,87	-45	150	0,3	12	
LUBRILOG LY PAO 220 AW	220	128	0,87	-45	150	0,3	12+	
LUBRILOG LY PAO 320 AW	320	129	0,88	-45	150	0,3	12+	
LUBRILOG LY PAO 460 AW	460	127	0,88	-40	150	0,3	12+	
LUBRILOG LY PAO 680 AW	680	148	0,87	-40	160	0,35	12+	
LUBRILOG LY PAO 1000 AW	1000	153	0,88	-40	160	0,35	13	

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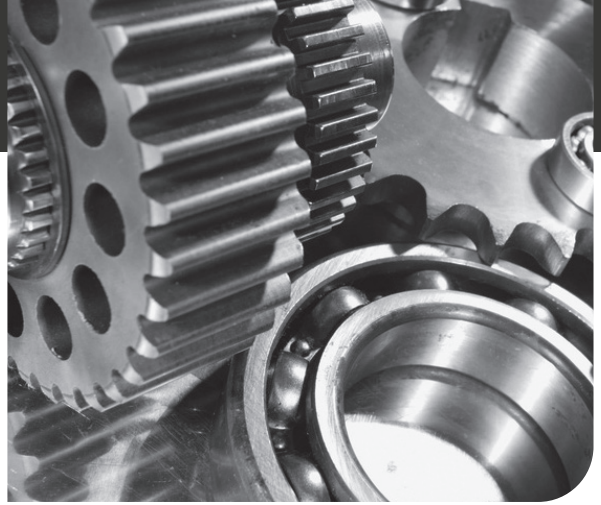
LUBRILOG LCC ... M

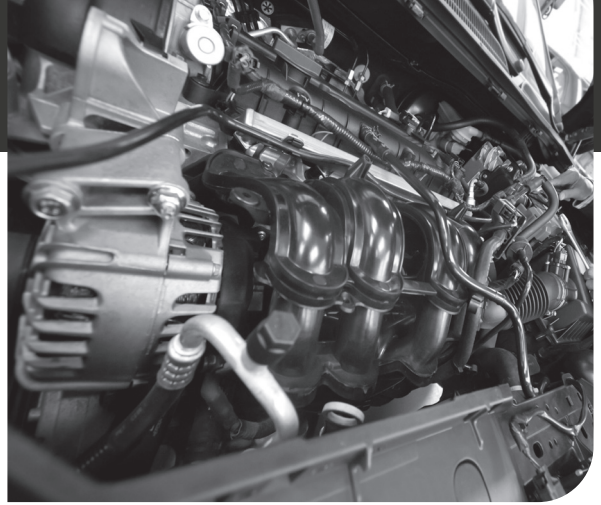


GENERAL PURPOSE HYDRAULIC TRANSMISSION OILS

The extreme pressure oils from the range LUBRILOG LCC ... M, are formulated with molybdenum bisulphide (MoS_2). This range of lubricants offers an excellent resistance to shear force and antiwear. They offer a long lasting lubrication for several applications : bearings submitted to heavy loads, chains, open gear drives under the casing, and for the high viscosities, heavy duty open gear drives (lateral command with rotating tube) and low speed bearings.

Products	Viscosity 40° C mm²/s	Viscosity index	Density (20° C)	Temperature range °C		Advantages
				Mini	Maxi	
LUBRILOG L CC 68 M	68	97	0,90	-24	120	• High viscosity index • Contains molybdenum bisulphide • Exceptional resistance to seizing. • Excellent extreme pressure resistance and antiwear properties • Resistance to high temperatures • High performance under heavy loads and low speeds • Contains no bitumen
LUBRILOG L CC 100 M	100	97	0,90	-24	120	
LUBRILOG L CC 150 M	150	97	0,90	-24	120	
LUBRILOG L CC 220 M	220	94	0,90	-21	120	
LUBRILOG L CC 320 M	320	98	0,90	-15	120	
LUBRILOG L CC 460 M	460	98	0,90	-12	120	
LUBRILOG L CC 680 M	680	98	0,90	-8	120	
LUBRILOG L CC 1000 M	1000	110	0,90	-3	120	
LUBRILOG L CC 2200 M	2200	99	0,90	0	120	
LUBRILOG L CC 3200 M	3200	107	0,90	+3	120	
LUBRILOG L CC 680 R	680	98	0,93	-8	120	

LUBRILOG L HM ...



GENERAL PURPOSE OILS FOR HYDRAULIC TRANSMISSIONS

LUBRILOG L HM is a range of fluids adapted for all hydraulic systems operating under high temperatures and pressures.

Products	Viscosity 40° C mm²/s	Viscosity index	Density (20° C)	Temperature range °C		Advantages
				Mini	Maxi	
LUBRILOG L HM 22	22	98	0,86	-30	120	• Reinforced antiwear protection • Good thermal stability • Good resistance to oxidation • Reduction of residues • Good filtration properties
LUBRILOG L HM 32	32	100	0,87	-30	120	
LUBRILOG L HM 46	46	100	0,88	-27	120	
LUBRILOG L HM 68	68	98	0,88	-24	120	
LUBRILOG L HM 100	100	96	0,89	-24	120	

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LUBRILOG L HV ...

OILS FOR HYDRAULIC TRANSMISSIONS AND EXTREME TEMPERATURES

LUBRILOG L HV is a range of fluids with high viscosity index for the hydraulic systems operating at low temperatures.

Products	Viscosity 40° C mm^2/s	Viscosity index	Density (20° C)	Temperature range °C		Advantages
				Mini	Maxi	
LUBRILOG L HV 15	15	147	0,86	-36	120	• Reinforced antiwear protection and good thermal stability • Good resistance to oxidation and prolonged intervals of oil change • Reduction of residues • Good filtration properties
LUBRILOG L HV 22	22	157	0,86	-39	120	
LUBRILOG L HV 32	32	157	0,87	-36	120	
LUBRILOG L HV 46	46	150	0,87	-36	120	
LUBRILOG L HV 68	68	147	0,88	-33	120	
LUBRILOG L HV 100	100	143	0,89	-30	120	

SILICONE BASED OILS

LUBRILOG LY S is a range of dimethylpolysiloxane type. They are characterised by remarkable thermal stability and compatibility with plastics and elastomers.

Products	Viscosity 25° C mm^2/s	Viscosity index	Density (20° C)	Temperature range °C		Advantages
				Mini	Maxi	
LUBRILOG LY S 20	20	290	0,95	-60	180	• Very high viscosity index • Excellent thermal stability
LUBRILOG LY S 50	50	290	0,96	-55	180	
LUBRILOG LY S 100	100	300	0,96	-55	180	
LUBRILOG LY S 150	150	320	0,96	-50	180	
LUBRILOG LY S 250	250	320	0,96	-50	180	
LUBRILOG LY S 350	350	350	0,96	-50	180	
LUBRILOG LY S 500	500	370	0,97	-50	180	
LUBRILOG LY S 1000	1000	400	0,97	-50	180	
LUBRILOG LY S 5000	5000	420	0,97	-49	180	

Consistency (NLGI Grade)	Consistency according ASTM D 217 (tenth of a millimetre)
000	445-475
00	400-430
0	335-385
1	310-340
2	265-295
3	220-250
4	175-205
5	130-160
6	85-115

ISO Viscosity Grade	Kinematic Viscosity (cSt) at 40°C		
	Mini	Maxi	Midpoint
2	1.98	2.42	**2.2**
3	2.88	3.52	**3.2**
5	4.14	5.06	**4.6**
7	6.12	7.48	**6.8**
10	9.0	11.0	**10.0**
15	13.5	16.5	**15.0**
22	19.8	24.2	**22.0**
32	28.8	35.2	**32.0**
46	41.4	50.6	**46.0**
68	61.2	74.8	**68.0**
100	90.0	110.0	**100.0**
150	135.0	165.0	**150.0**
220	198.0	242.0	**220.0**
320	288.0	352.0	**320.0**
460	414.0	506.0	**460.0**
680	612.0	748.0	**680.0**
1000	900.0	1100.0	**1000.0**
1500	1350.0	1650.0	**1500.0**
2200	1980.0	2420.0	**2200.0**
3200	2880.0	3520.0	**3200.0**

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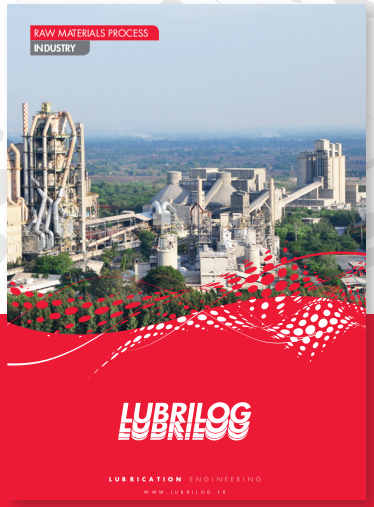
AUTOMOTIVE INDUSTRY



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ISOLATION	INSULATION
INDUSTRIE DU BOIS	PARTICLE BOARD INDUSTRY
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