

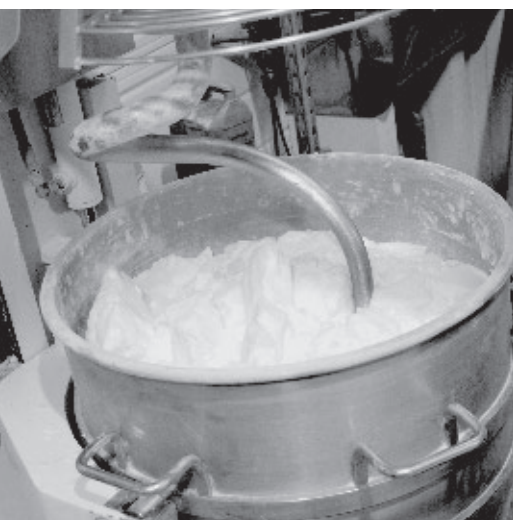
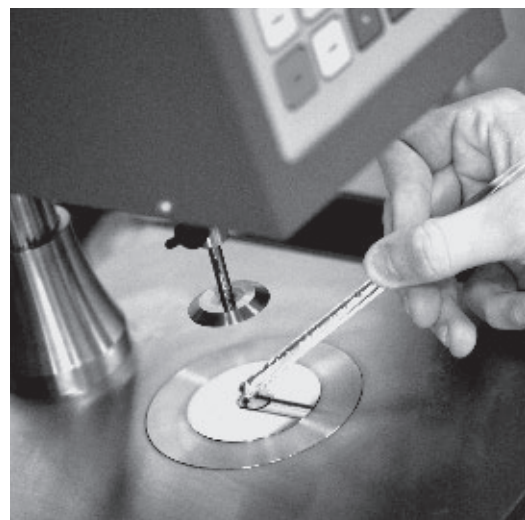


LUBRILOG

LUBRICATION ENGINEERING

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S U M M A R Y

LUBRILOG specializes in the conception and the manufacturing of speciality lubricants with a specific focus on perfluorinated lubricants. Whatever be the application requirements, LUBRILOG offers to develop customized high performance premium quality lubricants.

Since the launch of LUBRILOG in 1987 by a group of engineers, the company's resources were focussed on high performance lubricants for technically demanding industrial applications. Today LUBRILOG's solutions can be found in diverse industrial segments such as Automobile, Aerospace, Nuclear, Pharma, Food etc.

In 2009, The constantly increasing global demand for LUBRILOG solutions has allowed us to start a new manufacturing unit in Romans sur Isère based in the south of France. This unit is equipped with all the latest amenities while respecting the international safety norms in vigour. LUBRILOG is an ISO 9001: 2008 certified company and is in the process of getting the ISO 14001 certification.

Our complete range of perfluorinated lubricants are produced in a separate isolated unit free from all types of micro pollution and also far from other types of lubricants. Thus LUBRILOG ensures the delivery of premium quality, high performance lubricants all over the world.

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FLUORINATED GREASE

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	Viscosity 40° C mm²/s	Thickener	Base oil	Temperature range °C		% Evaporation after 24H	Advantages
				Mini	Maxi		
FLUOSTAR L 2 L	15	PTFE	PFPE	-60	120	10/120°C	• Exceptional stability at high temperatures • Excellent chemical inertness to both gases and aggressive liquids • Non-flammable and non-toxic • Total compatibility with plastics and elastomers • Very long durability • Very low friction • Very low vapor pressure • Good resistance to nuclear radiations
FLUOSTAR 2 L	150	PTFE	PFPE	-40	240	1,5/200°C	
FLUOSTAR H 2 PLUS	400	PTFE	PFPE	-30	260	0,9/200°C	
FLUOSTAR FH 2	500	PTFE	PFPE	-30	300	0,5/200°C	
FLUOSTAR LX 2	100	PTFE	PFPE	-50	200	2,5/150°C	
FLUOSTAR MX 2	200	PTFE	PFPE	-50	250	1,5/200°C	
FLUOSTAR HX 2	400	PTFE	PFPE	-40	300	0,5/200°C	
FLUOSTAR SX 2	310	PTFE + Silica Gel	PFPE	-60	320	0,4/200°C	
FLUOSTAR SG 2	310	Silica Gel	PFPE	-60	320	0,4/200°C	
FLUOSTAR XL	32	PTFE	PFPE	-85	150	1,5/150°C	
FLUOSTAR XM	200	PTFE	PFPE	-65	280	0,5/200°C	
FLUOSTAR XS	700	PTFE	PFPE	-50	320	<0,1/200°C	



FLUORINATED GREASES

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

Products	Viscosity 40° C mm²/s	Thickener	Base oil	Temperature range °C		% Evaporation after 24H	Advantages
				Mini	Maxi		
FLUOLOG K 258	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 • Non toxic
FLUOLOG K 259	15	PTFE	PFPE	-60	120	10 / 120°C	
FLUOLOG KEL	15	PTFE	PFPE	-60	120	8 / 120°C	
FLUOLOG LMX 2	85	PTFE	PFPE	-70	220	2,5 / 200°C	
FLUOLOG KEM	90	PTFE	PFPE	-40	200	2 / 150°C	
FLUOLOG LX 2	90	PTFE	PFPE	-40	200	2 / 150°C	
FLUOLOG KES	220	PTFE	PFPE	-30	250	0,5 / 150°C	
FLUOLOG 2 L	220	PTFE	PFPE	-35	250	0,7 / 150°C	
FLUOLOG MX 2	220	PTFE	PFPE	-35	300	0,5 / 150°C	
FLUOLOG MG 2	220	Gel	PFPE	-35	250	0,5 / 150°C	
FLUOLOG K 400	395	PTFE	PFPE	-30	260	0,7 / 200°C	
FLUOLOG K 500	500	PTFE	PFPE	-30	300	0,3 / 200°C	

FLUOSTAR® FOOD GRADE

FOOD GRADE

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 risk 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	Viscosity 40° C mm ² /s	Thickener	Base oil	Temperature range °C		Advantages
				Mini	Maxi	
FLUOSTAR FG 0	500	PTFE	PFPE	-30	300	• Exceptional stability at high temperatures. • Excellent resistance to water and chemicals. • Non-flammable. • Full compatibility with plastics and elastomers. • Very long life. • Very low friction. • Good viscosity-temperature behavior. • Very low vapor pressure • Good resistance to nuclear radiation. • Non-toxic : Approved USDA-H1
FLUOSTAR FG 1	500	PTFE	PFPE	-30	300	
FLUOSTAR FG 3	500	PTFE	PFPE	-30	300	
FLUOSTAR SX 1	310	PTFE + Gel	PFPE	-60	320	
FLUOSTAR SX 2	310	PTFE + Gel	PFPE	-60	320	
LUBRINOX 2	510	Gel	PFPE	-30	350	



GRAFOLOG®

The **GRAFOLOG®** range of greases are 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, chemicals (lateral transmissions of furnaces, grinders, dryers, coolers, mixers and rotating tubes in general)

Products	Viscosity 40° C mm²/s	Thickener	Base oil	Temperature range °C		Avantages
				Mini	Maxi	
GRAFOLOG H 0	500	Aluminium Complex	Mineral	-20	120	• Aluminium complex based soap thickener • 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
GRAFOLOG H 0 +	1100	Aluminium Complex	Mineral	-10	180	
GRAFOLOG H 2200	2200	Aluminium Complex	Mineral	0	200	
GRAFOLOG M FLUID	3000	Aluminium Complex	Mineral	-10	120	
GRAFOLOG MT FLUID	7500	Aluminium Complex	Mineral	0	140	
GRAFOLOG H 00 R	320	Aluminium Complex	Mineral	-10	200	
GRAFOLOG R FLUID	2000	Aluminium Complex	Mineral	-10	120	

LOGREASE®

LOGREASE® range of multifunctional greases offer a combination of benefits : excellent grip, high temperature resistance, load resistance and resistance to water.

Products	Viscosity 40° C mm ² /s	Thickener	Base oil	Temperature range °C		Advantages
				Mini	Maxi	
LOGREASE 000	100	Lithium	Mineral	-25	110	• Multifunctional greases • Wide range of temperature utilisation • Excellent protection against corrosion • Good resistance to water
LOGREASE 00	100	Lithium	Mineral	-25	120	
LOGREASE 0	100	Lithium	Mineral	-25	120	
LOGREASE 1	100	Lithium	Mineral	-30	130	
LOGREASE 2	100	Lithium	Mineral	-30	130	
LOGREASE 3	100	Lithium	Mineral	-30	130	
LOGREASE M 2	100	Lithium + MoS ₂	Mineral	-30	150	



HIGH TEMPERATURE GREASES

The greases form **STARPLEX®** range are commonly used in mechanical and heavy industries. They are mainly employed for the medium and high temperature applications in presence of water and/or steam. These greases are also applied for the lubrication of bearing exposed to shocks and high vibration levels.

Products	Viscosity 40° C mm ² /s	Thickener	Base oil	Temperature range °C		Speed factor (N.Dm)	Advantages
				Mini	Maxi		
STARPLEX G 1	110	Lithium Complex	Mineral	-20	150	> 400 000	• High mechanical and thermal stability. • Resistance to washing. • Resistance to shocks and vibrations. • Highly adhesive. • Reinforced anti-corrosion protection. • Decreased frequency of lubrication. • Excellent, inherent antiwear and extreme pressure properties.
STARPLEX G 1 M	110	Lithium Complex + MoS ₂	Mineral	-20	150	> 400 000	
STARPLEX G 2	110	Lithium Complex	Mineral	-20	180	> 400 000	
STARPLEX G 2 M	110	Lithium Complex + MoS ₂	Mineral	-20	180	> 400 000	
STARPLEX GM 2	150	Polyurea	Mineral	-25	160	> 500 000	
STARPLEX GM 500	460	Polyurea	Mineral	-20	180	> 300 000	
STARPLEX HT 462	460	PTFE/Gel	Ester	-20	200	> 300 000	
STARPLEX GS 2	100	Polyurea	Pao/Ester	-40	200	> 600 000	
STARPLEX HT 2 LIGHT	32	Lithium Gel	Pao/Ester	-50	190	< 800 000	
STARPLEX HT 2 MEDIUM	150	Nano PTFE	Special Ester	-40	210	< 500 000	
STARPLEX HT 2 HEAVY	460	Nano PTFE	Special Ester	-20	230	< 250 000	

MULTI-PURPOSE, LONGLASTING, HIGH-TECH GREASES

STARGREASE® range of lubricants are made from semi-synthetic base oils and high technology sulphocarbonates complexes. 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	Viscosity 40° C mm ² /s	Thickener	Base oil	Temperature range °C		Speed factor (N.Dm)	Advantages
				Mini	Maxi		
STARGREASE LIGHT	68	Sulfonate-carbonate / Complex	PAO / Mineral	-40	150	> 600 000	• Excellent protection against corrosion. • High thermal and mechanical stability. • Very high pressures resistance. • Resistance to washing. • Non-toxic (No heavy metals) • Long service life even at high temperatures. • Highly adhesive • Excellent alternative to the greases based on Barium soap
STARGREASE MEDIUM	220	Sulfonate-carbonate / Complex	PAO / Mineral	-25	150	> 400 000	
STARGREASE HEAVY	1000	Sulfonate-carbonate / Complex	PIB / Mineral	-20	150	> 250 000	
STARGREASE HV	420	Sulfonate-carbonate / Complex	Mineral	-25	180	> 300 000	
STARGREASE LSK 2	460	Complex / Complex	PIB / Mineral	-20	160	> 100 000	

GREASES FOR SMALL MECHANISMS AND COMPOSITE MATERIALS

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

Products	Viscosity 40° C mm²/s	Thickener	Base oil	Temperature range °C		Speed factor (N.Dm)	Advantages
				Mini	Maxi		
PLASTOGREASE BASE	22	Lithium	PAO	-50	150	>800 000	• Good compatibility with plastics and elastomers. • Good thermal and mechanical stability • Very low coefficient of friction. • Excellent antisqueak properties. • Can be used at very low temperatures. • Very good viscosity index. • Good adhesion, depending on grades. • Non-toxic
PLASTOGREASE TIXO	32	Lithium + Gel	PAO	-50	150	>800 000	
PLASTOGREASE TAC	46	Lithium	PAO	-50	150	>500 000	
PLASTOGREASE TF	32	Lithium + PTFE	PAO	-50	150	>500 000	
PLASTOGREASE TFH	750	Lithium + PTFE	PAO	-40	150	>250 000	

HIGH PERFORMANCE SYNTHETIC GREASES

PLASTOPLEX® range offers a low traction 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	Viscosity 40° C mm ² /s	Thickener	Base oil	Temperature range °C		Speed factor (N.Dm)	Advantages
				Mini	Maxi		
PLASTOPLEX 32	32	Lithium Complex	PAO	-50	150	>800 000	• Good compatibility with plastics and elastomers • Good thermal and mechanical stability • Very low traction coefficient • Excellent antisqueak properties • Applicable even in the low temperatures • Very good viscosity index • Good adherence depending upon the grades • Non-toxic
PLASTOPLEX 100	100	Lithium Complex	PAO	-50	150	>800 000	
PLASTOPLEX 220	220	Lithium Complex	PAO	-50	150	>500 000	
PLASTOPLEX 460	460	Lithium Complex	PAO	-50	150	>500 000	

VERY HIGH SPEED BEARING GREASES

SPEED® range has been designed by LUBRILOG 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	Viscosity 40° C mm ² /s	Thickener	Base oil	Temperature range °C		Advantages
				Mini	Maxi	
SPEED GB 1	46	Barium Complex	PAO	-45	160	• Applicable for very high speeds • High thermal and mechanical stability • Very low coefficient of friction • Excellent antisqueak properties • Applicable for very low temperatures • Very good viscosity index • Non-toxic
SPEED GB 2	46	Barium Complex	PAO	-45	180	
SPEED GL 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 without any toxicity.

Products	Viscosity 40° C mm²/s	Thickener	Base oil	Temperature range °C		Speed factor (N.dm)	Advantages
				Mini	Maxi		
SILOG 1, SILOG 2	350	Gel	Silicone	-50	180	>300 000	• Very good compatibility with plastics and elastomers • Very good stability to extreme temperatures • Excellent antisqueak properties • Excellent viscosity index • Good adherence according to grades • Very low friction in presence of PTFE - thickener • Completely non-toxic without any odour.
SILOG 1352	5000	Gel	Silicone	-50	180	>200 000	
SILOG 33	350	Lithium	Silicone	-50	180	>500 000	
SILOG 111	10 000	Gel	Silicone	-40	200	>100 000	
STARSIL 2	350	PTFE	Silicone	-50	180	>300 000	
STARSIL HT 2	125	PTFE	Silicone	-50	200	>600 000	

MOUNTING PASTES



PIGMENTED ANTI 'CORROSVE' MOUNTING PASTES

These compounds, incorporating a high amount of mineral or organic pigments are particularly developed by LUBRILOG for the applications involving the metallic assemblies exposed to high temperatures or aggressions such as :

- Fretting corrosion
- Oxidation
- Galvanic corrosion

Products	Viscosity 40° C mm ² /s	Thickener	Base oil	Temperature range °C		Advantages
				Mini	Maxi	
CERILOG	460	Sulfo-card/ complex	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
CUPROLOG G 1	150	Lithium + Cooper	Mineral	-30	1000	
ALUSTAR G 1	150	Lithium + Aluminium	Mineral	-30	600	
GRAFINOX G 1	68	Gel + Inox	PAO	-50	1000	
FLUORINOX	460	Gel + Inox	PFPE	-30	1000	
GALVASIL P	750	Gel + Zinc	Silicone P	-60	650	
GALVAFLUOR Y	500	Gel + Zinc	PFPE	-30	650	
LUBRINOX 2	510	Gel	PFPE	-30	350	



LUBRICATION OF MATERIALS UNDER NUCLEAR RADIATION

Recommended lubricants depending on the absorbed radiation dose	Low speed bearing N.dm <100 000	Low speed bearings N.dm > 100 000	Gear box		Open gears	Ball-joints, chains, slides....	Screws, bolted parts shaft seal.....
			Normal loads with oil	Heavy loads with 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 FLUOSTAR LY F 220*	LUBRILOG LX EEHH 00 FLUOSTAR O 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						

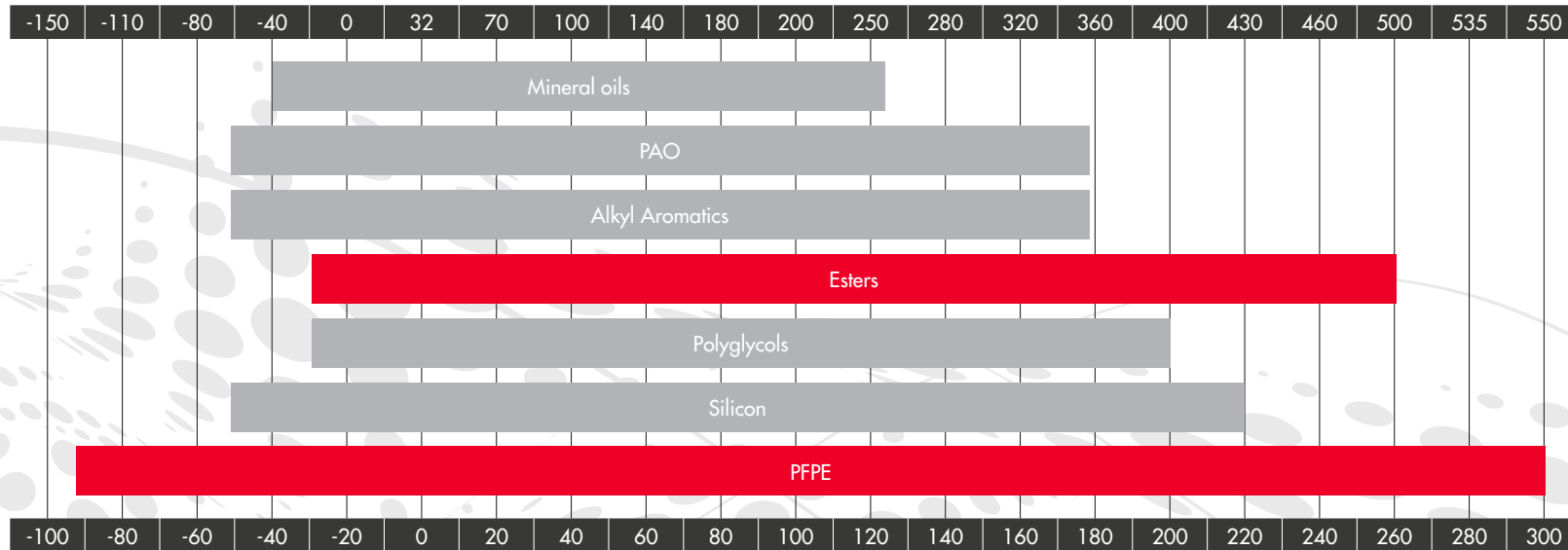
* Lubrificants without hydrogen

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

TEMPERATURES RANGE

Principal Base Oil

Temperature °F



Temperature °C

MISCIBILITY

Principal Base Oil

Base oils	Flourinated	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



FLUORINATED OILS

The **LUBRILOG LY F** oils range is made from colourless, odourless and non-toxic 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	10 (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 (150°C)	
LUBRILOG LY F 90	90	125	1,90	-40	200	5 (200°C)	
LUBRILOG LY F 160	160	130	1,91	-40	220	3 (200°C)	
LUBRILOG LY F 220	220	130	1,91	-30	250	1 (200°C)	
LUBRILOG LY F 270 HT	270	130	1,91	-35	260	< 0,6 (200°C)	
LUBRILOG LY F 510 HT	510	136	1,92	-20	300	< 0,12 (200°C)	

FLUOSTAR CHAIN

SPECIFIC FLUORINATED OILS

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

Products	Viscosity 40° C mm ² /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 % (200°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 % (200°C)	
FLUOCOR S*	280	-	1,75	-40	250	< 1 % (200°C)	

* Contains a vector solvent + UV tracer

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 mm ² /s	Viscosity index	Mass volume (20° C)	Temperature range °C		Flash point °C	% Volatility (204°C/6,5h)	Advantages
				Mini	Maxi			
ESTAR 50 SUPER	50	125	0,97	-40	290	301	1,7	• Excellent protection against corrosion • High thermal stability • Very low residue content • Resistance to washing • Very high flash point
ESTAR 125 HT	125	120	0,97	-40	280	>285	2,1	
ESTAR 125 SUPER PLUS	125	120	0,96	-40	290	>290	0,4	
ESTAR 250 SUPER	250	135	0,94	-40	280	>285	1,7	
ESTAR 250 SUPER PLUS	255	125	0,95	-40	290	>290	0,5	
CHAIN HT 220	200	135	0,94	-40	280	>275	2,0	
ESTAR CHAIN OIL 120	120	125	0,96	-30	280	285	1,9	
ESTAR BAND OIL	260	260	0,95	-35	280	>285	1,6	

ADHESIVE AND HYDROPHOBIC OILS

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 mm ² /s	Viscosity index	Density (20° C)	Temperature range °C		Advantages
				Mini	Maxi	
VISCOL 68 WR	68	103	0,88	-25	150	• Excellent protection against wear and corrosion. • Water repellent • Highly adhesive. • Resistance to washing out. • Non-toxic. N17 • Paint compatible.
VISCOL 150 WR	150	95	0,90	-10	150	
VISCOL 460 WR	460	125	0,89	-5	150	
VISCOL 4200	4200	180	0,89	-5	160	
VISCOL 4200/75 S	4200	180	0,89	-5	160	



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, chemical (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		Wear test (4 balls)	Advantages
				Mini	Maxi		
GEAR FLUID 180	4600	135	0,92	-5	100	> 980	• Exceptional resistance to seizing • Excellent extreme pressure resistance and antiwear properties • Ideal for heavy pay loads and slow speeds • Contains no heavy metals or bitume
GEAR FLUID 550	17000	180	0,92	0	120	> 980	
GEAR FLUID 1000	25000	230	0,92	0	120	> 980	
GEAR FLUID 550 D	17000	180	0,92	-10	120	> 980	
GEAR FLUID 1000 D	25000	230	0,92	0	120	> 980	
GEAR FLUID R	520	100	0,92	-15	100	> 980	



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		Wear ASTM	Bearing FZG	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	



HIGH PERFORMANCE SYNTHETIC OILS

Oils from our LUBRILOG LY PAO ... AW range offer a high resistance to both high as well as low temperatures, resistance to heavy loads, offer antiwear and anticorrosion properties. 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 mm ² /s	Viscosity index	Density (20° C)	Temperature range °C		Wear ASTM	Bearing FZG	Advantages
				Mini	Maxi			
LUBRILOG LY PAO 68 AW	68	145	0,84	-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	145	0,87	-50	150	0,3	12	
LUBRILOG LY PAO 150 AW	150	150	0,86	-45	150	0,3	12	
LUBRILOG LY PAO 220 AW	220	150	0,86	-45	150	0,3	12+	
LUBRILOG LY PAO 320 AW	320	155	0,86	-45	150	0,3	12+	
LUBRILOG LY PAO 460 AW	460	155	0,87	-40	150	0,3	12+	
LUBRILOG LY PAO 680 AW	680	160	0,87	-40	160	0,35	12+	
LUBRILOG LY PAO 1000 AW	1000	160	0,87	-40	160	0,35	13	

LUBRILOG LCC ... M

GENERAL PURPOSE HYDRAULIC TRANSMISSION OIL

The extreme pressure oils from the range LUBRILOG LCC ... M, are incorporated with molybdenum bisulphide (MoS_2) additive. This range of lubricants offer 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 casting, high viscosities, heavy duty open gear drives (lateral command with rotating tube) and low speed bearings.

Products	Viscosity 40° C mm ² /s	Viscosity index	Mass volume (20° C)	Temperature range °C		Advantages
				Mini	Maxi	
LUBRILOG L CC 68 M	68	97	0,90	-24	120	• High viscosity index • Contain Molybdenum bisulphide additive • 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 bitume
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 mm ² /s	Viscosity	Density (20° C)	Temperature range °C		Advantages
				Mini	Maxi	
LUBRILOG L HM 22	22	107	0,86	-27	120	• Reinforced antiwear protection • Good thermal stability • Good resistance to oxidation • Reduction of residue • Good filtration properties
LUBRILOG L HM 32	32	105	0,87	-24	120	
LUBRILOG L HM 46	46	104	0,88	-30	120	
LUBRILOG L HM 68	68	103	0,88	-27	120	
LUBRILOG L HM 100	100	103	0,89	-24	120	

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	150	0,86	-45	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	155	0,87	-43	120	
LUBRILOG L HV 32	32	155	0,87	-42	120	
LUBRILOG L HV 46	46	155	0,87	-42	120	
LUBRILOG L HV 68	68	160	0,88	-36	120	
LUBRILOG L HV 100	100	160	0,89	-33	120	

LUBRILOG LY S ...



SILICONE BASED OILS

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

Products	Viscosity 40° C mm²/s	Viscosity index	Mass volume (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	

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