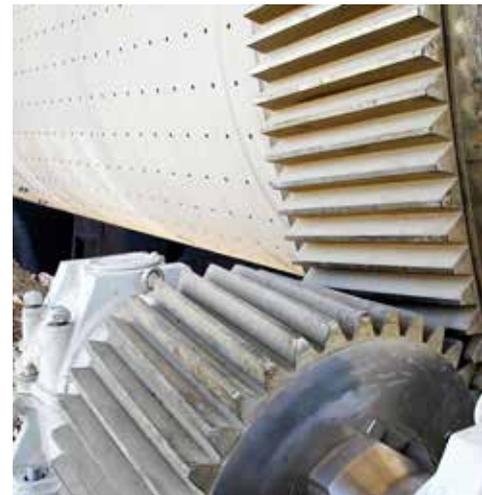


LUBRILLOG
LUBRICATION ENGINEERING

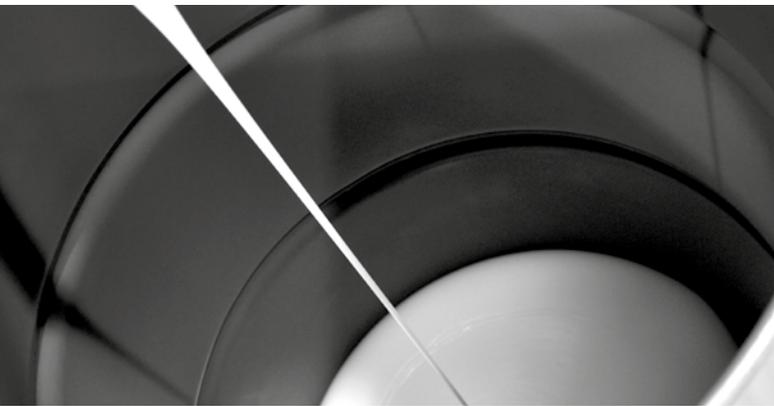


General Catalog



TotalEnergies

Lubrication Engineering



Specialized in the conception and the manufacturing of specialty lubricants, Lubrilog offers full ranges of advanced lubricant solutions.

Our strong organizational values along with renewed production equipment allow us to propose optimum quality specialty lubricants to our clients.

Indeed, since the inception of the company in the year 1987 by a group of engineers, Lubrilog has successfully conceived ranges of unparalleled lubricants with a customized approach to meet the challenges of demanding industrial needs in Automotive, Electronics, Nuclear, Aeronautics, Cement, Mining, Mineral Wool, Corrugated cardboard, Wood based panels and many others.

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.

All our customers are attended by our application engineers fully dedicated to assist them in the

choice of the most efficient lubricant to use according to their requirements.

Additionally, our in-house logistics and supply chain experts ensure a timely supply and support in more than 52 countries all year long.

In its constant quest for further quality certification, Lubrilog is certified ISO 9001 v2015.

In July 2020, Lubrilog has become a wholly owned subsidiary of TotalEnergies.

Since then, a full strategy dedicated to customers has been steadily built by proposing an efficient complementarity of Lubrilog ranges with the global footprint of TotalEnergies and its local presence.

More than ever, Lubrilog is committed to do always better in pursuit of Tribological excellence!

GREASES

Fluostar®.....	P 04
<i>Specialized fluorinated greases for extreme uses</i>	
Fluolog®.....	P 05
<i>Fluorinated greases for Extreme applications</i>	
Grafolog®.....	P 06
<i>Graphite greases for open gear drives</i>	
Logrease®.....	P 07
<i>Multi-purpose, greases for industrial applications</i>	
Starlog®.....	P 08
<i>High quality greases for heavy industry</i>	
Stargrease®.....	P 09
<i>Multi-purpose, long-lasting, high-tech greases</i>	
Plastogrease®.....	P 10
<i>High technology greases for steel/plastic or plastic/plastic contacts</i>	
Plastoplex®.....	P 11
<i>High performance Synthetic greases ultra</i>	
Plastogel®.....	P 12
<i>Specific gels for electrical connectors and plastic mechanisms</i>	
Speed®.....	P 13
<i>Very high speed bearing greases</i>	
Silog® & Starsil®.....	P 14
<i>High performance silicone greases and pastes</i>	
Mounting Pastes.....	P 15
<i>Pigmented anti corrosive mounting pastes</i>	
Nuclear.....	P 16
<i>Lubrication of materials under nuclear radiation</i>	

OILS

Lubrilog LY F.....	P 17
<i>Fluorinated oils : range of perfluorinated oils with exceptional performances</i>	
Fluostar Dilution®.....	P 18
<i>Specific perfluorinated lubricants</i>	
Lubrilog LY S.....	P 19
<i>Silicone lubricants</i>	
Estar® / Ecobiol®.....	P 20
<i>Full synthetic oils for chains at high temperature</i>	
Estar® / Ecobiol®.....	P 21
<i>Full synthetic oils for chains at extreme temperature</i>	
Viscol®.....	P 22
<i>Adhesive and hydrophobic oils</i>	
Lubrilog L CC M.....	P 23
<i>General purpose hydraulic transmission oils</i>	
Gear Fluid®.....	P 24
<i>Oils for open gear drives</i>	
Gearlog®.....	P 25
<i>Compounds for open gear drives</i>	
Lubrilog PG OIL.....	P 26
<i>Synthetic oils for open gear drives and high efficiency bearings</i>	
Lubrilog LY PAO AW.....	P 27
<i>High performance synthetic oils</i>	
Lubrilog L HM.....	P 28
<i>General purpose lubricants for hydraulic systems</i>	
Lubrilog L HV.....	P 29
<i>Lubricants for hydraulic systems exposed to extreme temperatures</i>	



Fluostar®

SPECIALIZED FLUORINATED GREASES FOR EXTREME USES

Fluostar® range is composed 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.

CHARACTERISTICS

Products	NLGI	Base Oil Viscosity (mm ² /s)	Base Oil	Thickener	Temperature Range (°C)		
					Min	Max	
Fluostar XL	2	32	PFPE	PTFE	-85	150	
Fluostar XML	2	85	PFPE	PTFE	-70	220	
Fluostar XM	2	200	PFPE	PTFE	-65	280	
Fluostar SX 2*	2	310	PFPE	PTFE + Gel	-60	320	
Fluostar SG 2	2	310	PFPE	Gel	-60	320	
Fluostar SM 2	2	310	PFPE	PTFE	-60	250	
Fluostar XS	2	700	PFPE	PTFE	-50	320	
Fluostar LX 2	2	100	PFPE	PFPE	-50	200	
Fluostar MX 2	2	200	PFPE	PTFE	-50	250	
Fluostar 2 L*	2	150	PFPE	PTFE	-40	240	NSF
Fluostar H 2 Plus*	2	400	PFPE	PTFE	-30	260	
Fluostar FH 2	2	500	PFPE	PTFE	-30	300	
Fluostar FG 2*	2	500	PFPE	PTFE	-30	300	NSF

* Available in different NLGI Grades

ADVANTAGES

- Exceptional stability at high temperatures
- Excellent chemical inertness (gas and aggressive liquids)
- Non-flammable
- Total compatibility with plastics and elastomers
- Very long durability
- Very low friction
- Very low vapor pressure
- Good resistance to nuclear radiations



H1 Suitable for incidental food contact



Fluolog®

FLUORINATED GREASES FOR EXTERME APPLICATIONS

Fluolog® range is composed 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.

CHARACTERISTICS

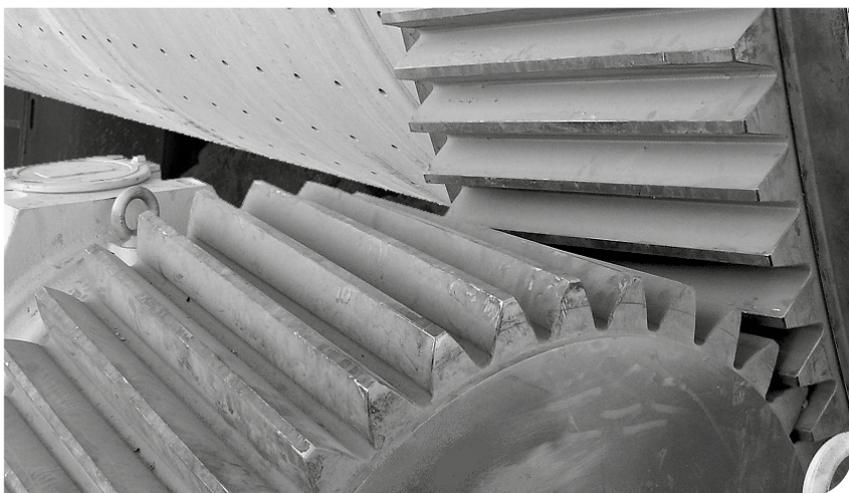
Products	NLGI	Base Oil Viscosity (mm ² /s)	Base Oil	Thickener	Temperature Range (°C)	
					Min	Max
Fluolog K 258	2	8	PFPE	PTFE	-70	80
Fluolog K 259	2	15	PFPE	PTFE	-60	120
Fluolog KEM	2	90	PFPE	PTFE	-40	200
Fluolog LX 2	2	90	PFPE	PTFE	-40	200
Fluolog 2 L	2	220	PFPE	PTFE	-30	250
Fluolog MX 2	2	220	PFPE	PTFE	-30	300
Fluolog MG 2	2	220	PFPE	Gel	-30	250
Fluolog K 240	2	240	PFPE	PTFE	-30	260
Fluolog K 400	2	395	PFPE	PTFE	-30	260
Fluolog K 500*	2	500	PFPE	PTFE	-30	300

* Available in different NLGI Grades

 H1 Suitable for incidental food contact

ADVANTAGES

- Exceptional high temperature stability
- Excellent chemical inertness (gas and aggressive liquids)
- Non-flammable
- Total compatibility with plastics and elastomers
- Very long lifetime
- Very low friction
- Very low vapor pressure
- Good resistance to nuclear radiations



Grafolog®

GRAPHITE GREASES FOR OPEN GEAR DRIVES

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, mining, etc.

CHARACTERISTICS

Products	NLGI	Base Oil Viscosity (mm ² /s)	Base Oil	Thickener	Temperature Range (°C)	
					Min	Max
Grafolog H 00 LT	00	130	Semi-Synth	Al-X	-40	150
Grafolog H 0	0	750	Mineral	Al-X	-20	120
Grafolog H 0 +	0/1	1 100	Mineral	Al-X	-10	180
Grafolog H 2200	0/00	2 200	Mineral	Al-X	0	180
Grafolog H 6000	0/00	6 000	Mineral	Al-X	5	180
Grafolog H 10 K	0/00	10 000	Mineral	Al-X	0	180
Grafolog M Fluid	000	3 000	Mineral	Al-X	-10	120
Grafolog MT Fluid	000/00	7 500	Mineral	Al-X	0	140
Grafolog H 00 R	00	520	Mineral	Al-X	-10	200
Grafolog R Fluid	< 000	2 000	Mineral	Al-X	-10	120
Grafolog H 1	1	1 100	Mineral	Al-X	-20	120

Products	Priming	Running-In	Service Lubricants	Bath or Circulation	Spray	4 Balls Weld Test (DaN)
Grafolog H 00 LT			X		X	>800
Grafolog H 0			X		X	>620
Grafolog H 0 +			X		X	>620
Grafolog H 2200			X		X	>620
Grafolog H 6000			X		X	>800
Grafolog H 10 K			X		X	>620
Grafolog M Fluid			X	X		>800
Grafolog MT Fluid			X	X		>800
Grafolog H 00 R		X			X	>800
Grafolog R Fluid		X		X		>800
Grafolog H 1	X					>500

ADVANTAGES

- Exceptional resistance to seizing
- Excellent EP and anti-wear properties
- Resistance to high temperatures
- Heavy loads and slow speeds
- Contains neither heavy metals nor bitumen
- High purity mono crystalline graphite



Logrease®

MULTI-PURPOSE, GREASES FOR INDUSTRIAL APPLICATIONS

Logrease® is a range of lithium greases, designed to withstand high temperature, speed and load.

CHARACTERISTICS

Products	NLGI	Base Oil Viscosity (mm ² /s)	Base Oil	Thickener	Temperature Range (°C)	
					Min	Max
Logrease 2*	2	130	Mineral	Li	-30	130
Logrease M 2	2	130	Mineral	Li + MoS ₂	-15	150
Logrease White 2	2	130	Mineral	Li	-20	130
Logrease White 2 TF	2	130	Mineral	Li + PTFE	-20	130
Logrease LCL 2	2	140	Mineral	Li / Ca	-20	140
Logrease LCM 2	2	310	Mineral	Li / Ca	-20	140
Logrease LCX TF 2	2	1 100	Mineral	Li / Ca - X	-20	160

* Available in different NLGI Grades

ADVANTAGES

- Good extreme pressure protection
- Wide range of operating temperatures
- Excellent protection against corrosion
- Good water resistance



Starlog®

HIGH QUALITY GREASES FOR HEAVY INDUSTRY

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

CHARACTERISTICS

Products	NLGI	Base Oil Viscosity (mm ² /s)	Base Oil	Thickener	Temperature Range (°C)	
					Min	Max
Starlog G 2*	2	115	Mineral	Li-X	-20	180
Starlog G 2 M	2	115	Mineral	Li-X + MoS ₂	-20	180
Starlog BXM 2	1-2	220	Mineral/PAO	Ba-X	-20	150
Starlog BXH 2	2	460	Mineral	Ba-X	-45	160
Starlog GM 500	1	500	Mineral	PU	-20	180
Starlog GM 500 TF 1	1	500	Mineral	PU + PTFE	-20	200
Starlog GS 2	2	100	PAO/Ester	PU	-40	200
Starlog HT 2 Medium	2	150	Ester	PTFE	-40	210
Starlog HT 2 Heavy	2	460	Ester	PTFE	-20	230
Starlog HT 462	2	460	Ester	PTFE	-20	200

* Available in different NLGI Grades

ADVANTAGES

- High mechanical and thermal stability
- Resistance to washing
- Resistance to shocks and vibrations
- Highly adhesive
- Reinforced anticorrosion protection
- Decreased frequency of lubrication
- Inherent anti-wear and extreme pressure properties



Stargrease®

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

Stargrease® range is based on high technology calcium sulfonate complex thickener. These greases have exceptional anti-wear and extreme pressure properties, as well as excellent resistance to high temperature, steam and diluted chemical agents.

CHARACTERISTICS

Products	NLGI	Base Oil Viscosity (mm ² /s)	Base Oil	Thickener	Temperature Range (°C)		
					Min	Max	
Stargrease Light	2	68	Mineral/PAO	Ca-S-X	-25	150	
Stargrease Medium	2	220	Mineral/PAO	Ca-S-X	-25	150	
Stargrease Heavy	3	1 000	Mineral/PIB	Ca-S-X	-20	150	
Stargrease Heavy Plus	1-2	1 000	Mineral/PIB	Ca-S-X	-25	180	
Stargrease HV	1-2	460	Mineral	Ca-S-X	-25	180	
Stargrease LSK 2	2	460	Mineral	X-X	-20	160	
Stargrease LSK 2 M	1-2	460	Mineral	X-X + MoS ₂	-20	160	
Stargrease FG 2 L	2	80	PAO	Ca-S-X	-55	180	
Stargrease SHV 2	1-2	320	White oil / PAO	Ca-S-X	-30	180	

ADVANTAGES

 H1 Suitable for incidental food contact

- Excellent protection against corrosion
- High thermal and mechanical stability
- Very high pressure resistance.
- Water resistant
- Long operational lifetime
- Highly adhesive
- Excellent alternative to barium greases



Plastogrease®

HIGH TECHNOLOGY GREASES FOR STEEL/PLASTIC OR PLASTIC/PLASTIC CONTACTS

Plastogrease® range has been specifically formulated with synthetic base oils, anti-wear and friction modifier additives, in order to protect any small plastic mechanisms, loaded actuators in Automotive, Robotic or other demanding industrial applications. These greases can work at very low temperature with a very low starting torque.

CHARACTERISTICS

Products	NLGI	Base Oil Viscosity (mm ² /s)	Base Oil	Thickener	Temperature Range (°C)	
					Min	Max
Plastogrease WAC 2	2	18	PAO	Li	-40	130
Plastogrease TIXO	2	32	PAO	Li + Gel	-50	150
Plastogrease TAC	2	46	PAO	Li	-50	150
Plastogrease TF	2	32	PAO	Li + PTFE	-50	150
Plastogrease TFH	2	750	PAO	Li + PTFE	-40	150

ADVANTAGES

- Good compatibility with plastics and elastomers
- Good thermal and mechanical stability
- Very low friction coefficient
- Excellent anti-squeak properties
- Suitable for very low temperatures
- Very good viscosity index
- Good adherence depending upon the grades



Plastoplex®

HIGH PERFORMANCE SYNTHETIC GREASES

Plastoplex® range offers a low friction coefficient, bringing energy savings and long durability to bearings. They are also applicable for the lubrication of plastic parts in the automotive industry.

CHARACTERISTICS

Products	NLGI	Base Oil Viscosity (mm ² /s)	Base Oil	Thickener	Temperature Range (°C)	
					Min	Max
Plastoplex 32	2	32	PAO	Li-X	-50	160
Plastoplex 32 TF	2	32	PAO	Li-X + PTFE	-50	160
Plastoplex 100	2	100	PAO	Li-X	-50	160
Plastoplex 100 TF	2	100	PAO	Li-X + PTFE	-50	160
Plastoplex 220	2	220	PAO	Li-X	-50	160
Plastoplex 220 TF	2	220	PAO	Li-X + PTFE	-50	160
Plastoplex 460	1/2	460	PAO	Li-X	-40	160
Plastoplex 460 TF	1/2	460	PAO	Li-X + PTFE	-40	160

ADVANTAGES

- Good compatibility with plastics and elastomers
- Good thermal and mechanical stability
- Very low friction coefficient
- Excellent anti-squeak properties
- Suitable for very low temperatures
- Very good viscosity index
- Good adherence depending upon the grades



Plastogel®

SPECIFIC GELS FOR ELECTRICAL CONNECTORS AND PLASTIC MECHANISMS

Plastogel® range is formulated with specific gel and high quality base oils, and presents high dielectric resistivity. These greases can effectively seal any contact from moisture or oxygen to prevent corrosion or pollution.

Plastogel® range can also be used as damping products for plastic mechanisms in Automotive Industry.

CHARACTERISTICS

Products	NLGI	Base Oil Viscosity (mm ² /s)	Base Oil	Thickener	Temperature Range (°C)	
					Min	Max
Plastogel CE 400	2	400	PAO	Gel	-40	160
Plastogel TS 400	2	400	PAO	Gel	-40	160
Plastogel TS 1200*	00	1 250	PAO	Gel	-40	160
Plastogel RI 250	2	250	Vegetable	Gel	-10	100
Plastogel PG 1000	1	1 000	PAG	Gel	-30	180

* Available in different NLGI Grades

ADVANTAGES

- Excellent compatibility with most elastomers and plastics
- High dielectric resistivity
- High damping effect
- Good water resistance
- High adhesiveness on plastic surfaces



Speed®

VERY HIGH SPEED BEARING GREASES

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

CHARACTERISTICS

Products	NLGI	Base Oil Viscosity (mm ² /s)	Base Oil	Thickener	Temperature Range (°C)	
					Min	Max
Speed GB 1	1	46	PAO	Ba-X	-45	160
Speed GB 2	2	46	PAO	Ba-X	-45	180
Speed LP 2	2	18	PAO	Li	-60	150
Speed GL 2	2	14	Ester	Li	-70	130

ADVANTAGES

- Applicable for very high speeds
- High thermal and mechanical stability
- Very low friction coefficient
- Excellent anti-noise properties
- Suitable for very low temperatures
- Very good viscosity index



Silog® & Starsil®

HIGH PERFORMANCE SILICONE GREASES AND PASTES

Developed with specific silicone oils, **Silog®** and **Starsil®** products serve a wide range of industrial applications, including electrical insulation, mechanical and sealing. They are highly adhesive, reduce friction and are fully compatible with most plastics and elastomers.

CHARACTERISTICS

Products	NLGI	Base Oil Viscosity (mm ² /s)**	Base Oil	Thickener	Temperature Range (°C)	
					Min	Max
Silog GE 3	3	50	Silicone	Gel	-50	200
Silog 2*	2	350	Silicone	Gel	-50	180
Silog 1352 WT*	1	5 000	Silicone	Gel	-50	180
Silog 1352 WTF	1-2	5 000	Silicone	Gel + PTFE	-50	180
Silog 111	3	1 000	Silicone	Gel	-55	200
Silog 12500	0	12 500	Silicone	Gel	-40	200
Silog 33	2	350	Silicone	Li	-40	200
Starsil 2	2	350	Silicone	PTFE	-50	180
Starsil HT 2*	2	125	Silicone	PTFE	-50	200

ADVANTAGES

* Available in different NLGI Grades
** At 25°C

- Very good compatibility with plastics and elastomers
- Very good stability at extreme temperatures
- Excellent anti-squeak properties
- Excellent viscosity index
- Good adherence according to grades
- Very low friction in presence of PTFE



Mounting Pastes

PIGMENTED ANTI-CORROSION MOUNTING PASTES

Lubrilog Mounting Pastes have been developed to efficiently protect screws and bolts assembly, chucks, and very loaded sliding links or rolling systems with slow motion.

These compounds, incorporating a high amount of mineral or organic solid lubricants are particularly suited for applications involving metal assembly exposed to extreme temperatures or aggressions such as fretting corrosion, oxidation, shocks or vibrations.

CHARACTERISTICS

Products	NLGI	Base Oil Viscosity (mm ² /s)	Base Oil	Thickener	Temperature Range (°C)	
					Min	Max
Cerilog	3	460	Mineral	Ca-S-X	-30	160
Cerilog BA	2-3	50	PAO	Ba-X	-40	180
Cerilog GL	1-2	14	Mineral/Ester	Li	-70	120
Cerilog NB	2	130	Mineral	Li + Boron Nitride	-20	1 200
Cuprolog G 1	1	500	Mineral	Clay + copper	-20	1 000
Alustar G 2	2	100	Mineral	Li + Aluminum	-20	700
Lubrinox 2	2	510	PFPE	Gel	-30	300
Grakote GEP 1	1	300	Semi synth	Compound	-30	1 000
Grakote HT	2	350	Mineral	Al-X	-20	1 100

ADVANTAGES

- No heavy metals
- Efficient even after liquid phase disappearance
- Facilitate both electrical and thermal conductivity
- Excellent anti-seizing properties
- Eliminate static electricity
- Very high anticorrosion properties



Nuclear

LUBRICATION OF MATERIALS UNDER NUCLEAR RADIATION

CHARACTERISTICS

Recommended lubricants depending on the absorbed radiation dose	Low speed bearing N.dm < 100 000	High speed bearing N.dm > 100 000	Gear box	
			Normal loads with oil	High loads with grease
0 < D ≤ 10 K.Gray	Lubrilog LX CEHB 3 NG	Lubrilog LX CEHB 2 NG	Conventional lubricants	Conventional lubricants
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
1000 < D ≤ 10 000 K.Gray	Lubrilog LX AGFH 2	Lubrilog LX AGFA 2	Lubrilog LY PPE 360	Lubrilog LX A GFH 00
D > 10 000 K.Gray	Consult Lubrilog			

Recommended lubricants depending on the absorbed radiation dose	Open gears	Ball-joints, chains, slides.	Screws, bolted parts, shaft seal.
0 < D ≤ 10 K.Gray	Conventional lubricants		Lubrinox 2* Fluostar FH 2*
10 < D ≤ 1000 K.Gray	Lubrilog LX EEHH 2	Lubrilog LX EEHI 2 Fluostar FH 2* Fluostar CHAIN 320*	Lubrinox 2* Fluostar FH 2*
1000 < D ≤ 10 000 K.Gray	Lubrilog LX AGFI 2	Lubrilog LX AGFI 2	
D > 10 000 K.Gray	Consult Lubrilog		

* Lubricants without hydrogen



Lubrilog LY F

FLUORINATED OILS : RANGE OF PERFLUORINATED OILS WITH EXCEPTIONAL PERFORMANCES

Lubrilog LY F® oils range is made from colorless and odorless Perfluorinated Polymers.

These polymers are chemically neutral and show very good thermal stability along with excellent tribological performances in comparison with other synthetic oils.

They are available in a wide range of viscosities and can represent a customized solution to any complex technical request.

They are non-miscible with other lubricants.

CHARACTERISTICS

Products	Viscosity (mm ² /s)	Viscosity Index	Density	Temperature Range (°C)		Flash Point °C
				Min	Max	
Lubrilog LY F 15	15	60	1,87	-60	120	-
Lubrilog LY F 22	22	73	1,88	-50	150	-
Lubrilog LY F 35	35	102	1,89	-45	150	-
Lubrilog LY F 68	68	106	1,89	-40	150	-
Lubrilog LY F 90	90	108	1,9	-40	200	-
Lubrilog LY F 160	160	120	1,91	-30	220	-
Lubrilog LY F 220	220	130	1,91	-30	250	-
Lubrilog LY F 270 HT	270	130	1,91	-30	260	-
Lubrilog LY F 510 HT	510	136	1,92	-20	300	-

NSF

NSF

NSF

 H1 Suitable for incidental food contact

ADVANTAGES

- Chemically inert
- Totally non-flammable
- Excellent friction coefficient
- Excellent anti-seizing properties
- Low vapor pressure
- Full compatibility with plastics and elastomers
- Very long-lasting lubrication



Fluostar Dilution®

SPECIFIC PERFLUORINATED LUBRICANTS

Fluostar Dilution® are a combination of Perfluorinated Polymers and Perfluorinated Solvent.

Once the solvent evaporates, a clean and thin lubrication film remains to efficiently and durably protect any media.

These perfluorinated dilutions have been especially developed to ease the assembly and durably protect any plastic or elastomer components, used in various industries like automotive, electrical contacts and electronic connections.

They can also be used for high temperature chain lubrication in ovens and/or dryers where cleanliness is a critical subject in their operational processes.

CHARACTERISTICS

Products	Viscosity (mm ² /s)*	Viscosity Index	Density	Temperature Range (°C)		Flash Point °C
				Min	Max	
Fluostar Dilution 91	90	108	1,90	-40	200	-
Fluostar Dilution 161	160	120	1,91	-30	220	-
Fluostar Dilution 205	220	130	1,91	-30	250	-
Fluostar Dilution 210	220	130	1,91	-30	250	-
Fluostar Dilution 270	270	130	1,91	-30	260	-
Fluostar Dilution 510	510	136	1,92	-20	300	-
Fluocor SST Plus	280		1,91	-30	250	-
Fluostar Cleaner	-	-	1,52	-	-	-

* Viscosity after solvent evaporation

ADVANTAGES

- Compatible with all plastics and elastomers
- Non-flammable
- Excellent friction coefficient
- Excellent anti-seizing properties
- Leave no residue
- Very low consumption
- Silicone free



Lubrilog LY S

SILICONE LUBRICANTS

Lubrilog LY S is a range of dimethylpolysiloxane polymers with a very large viscosity availability. These lubricants are characterized by a very high thermal stability and are compatible with most plastics and elastomers. They are used in various industries, like cable manufacturing and automotive.

CHARACTERISTICS

Products	Viscosity at 25°C (mm ² /s)	Viscosity Index	Density	Temperature Range (°C)		Flash Point °C
				Min	Max	
Lubrilog LY S 20	20	290	0,95	-60	180	240
Lubrilog LY S 50	50	290	0,96	-55	180	>300
Lubrilog LY S 100	100	300	0,96	-55	180	>300
Lubrilog LY S 350	350	350	0,97	-50	180	>300
Lubrilog LY S 1000	1 000	400	0,97	-50	180	>300
Lubrilog LY S 5000	5 000	420	0,97	-45	180	>300

ADVANTAGES

- Very high viscosity index
- Excellent thermal stability
- Compatible with most plastics and elastomers
- High resistance to water wash-out
- High dielectric resistivity



Estar® / Ecobiol®

FULL SYNTHETIC OILS FOR CHAINS AT HIGH TEMPERATURE

All **Estar®** range consists of full synthetic ester oils specially developed for the lubrication of chains subjected to high operating temperature in any industry.

Specific additive packages are used in their formulation to stabilize the lubricating film on chains and to enhance anti-wear, anticorrosion, antioxidants properties.

Estar Super Plus® is our Premium line which has been completely designed to ensure a low evaporation rate at temperature up to 290°C. This contributes to improve chain lubrication efficiency over time and extend cleaning intervals.

They can be used in any high temperature and steam manufacturing process like in dryers, ovens, overhead conveyors, and any other similar production machines.

CHARACTERISTICS

Products	Viscosity (mm ² /s)	Viscosity Index	Density	Temperature Range (°C)		Flash Point °C
				Min	Max	
Estar 125 SHT	125	123	0,96	-30	240	>250
Estar 250 SHT	250	120	0,95	-30	240	>250
Estar 50 Super	50	123	0,99	-40	260	>280
Estar 125 Super	125	120	0,96	-40	280	>280
Estar 250 Super	250	120	0,96	-40	280	>280
Estar 680 Super	680	123	0,95	-20	250	>270
Estar 4800 Super	4 800	-	0,93	-10	250	265
Estar 125 Super Plus	125	120	0,96	-40	290	>290
Estar 250 Super Plus	255	120	0,96	-40	290	>290
Estar 320 Super Plus	320	118	0,95	-40	290	>290
Estar L Spray	250*	120*	0,96*	-40	250	>280*

* After gas evaporation

ADVANTAGES

- High thermal stability
- High flash & fire points
- Very low residue content
- Excellent protection against wear & corrosion
- Extended chain cleaning intervals
- Water resistant



Estar® / Ecobiol®

FULL SYNTHETIC OILS FOR HIGH TEMPERATURE

Oils from **Estar XT®** range represent our ultimate lubrication line for chain applications at extreme temperature. The outstanding thermal stability of these oils combined with high flash and fire points and their abilities to generate very low carbon residues allow an efficient chain lubrication up to 300°C and even more in dry lubrication with **Estar XT G®** oils enhanced with solid lubricants (Up to 450°C).

Ester oils from **Ecobiol®** range are fully dedicated to high temperature chain lubrication for manufacturing process for food industries. They are all NSF H1 registered.

CHARACTERISTICS

Products	Viscosity (mm ² /s)	Viscosity Index	Density	Temperature Range (°C)		Flash Point °C	
				Min	Max		
Estar 125 XT	125	110	0,97	-30	305	305	
Estar 250 XT	260	96	0,97	-15	305	305	
Estar 400 XT	410	85	0,97	-15	305	305	
Estar 125 XT G*	125	220	0,99	-30	450***	270	
Estar 250 XT G*	270	149	0,98	-15	450***	290	
Ecobiol 220 NF	220	95	0,97	-35	280	305	
Ecobiol 300 NF	300	95	0,97	-20	280	300	
Ecobiol NB 310*	210	-	0,97	-35	750***	>240	
Ecobiol 300 NF Spray	300**	95**	0,97**	-20	280	300**	

* With solid lubricant - ** After gas evaporation - *** In dry lubrication

 H1 Suitable for incidental food contact

ADVANTAGES

- Very high thermal stability
- High flash & fire points
- Very low residue content
- Excellent protection against wear & corrosion
- Extended chain cleaning intervals
- Water resistant



Viscol®

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 stringy and tacky additives.

They bring high protection against corrosion, even in saline environment or in presence of steam up to 150°C. They also show excellent anti-wear and extreme pressure properties for any kind of chains.

CHARACTERISTICS

Products	Viscosity (mm ² /s)	Viscosity Index	Density	Temperature Range (°C)		Flash Point °C
				Min	Max	
Viscol FS 68	68	86	0,91	-27	160	>200
Viscol 150 WR	150	64	0,9	-10	150	>200
Viscol 460 WR	460	96	0,91	-5	150	>240
Viscol 4200	4 200	140	0,91	-5	160	240
Viscol 4200 M	4 200	140	0,91	-5	160	240
Viscol 4200/75 S	4 200*	140*	0,91*	-5	160	240*

* After solvent evaporation

ADVANTAGES

- Excellent protection against wear and corrosion
- Water repellent
- Highly adhesive
- Resistance to washing out
- Paint compatible



Lubrilog L CC M

GENERAL PURPOSE HYDRAULIC TRANSMISSION OILS

These extreme pressure lubricants are formulated with Molybdenum disulfide (MoS₂), improving anti-wear performance, offering an excellent resistance to shear force, shocks and vibrations. They offer a long lasting lubrication for several applications : bearings submitted to heavy load, chains, open gear drives under casing, and for the high viscosities, heavy duty open gear drives (lateral command with rotating tube) and low speed bearings.

CHARACTERISTICS

Products	Viscosity (mm ² /s)	Viscosity Index	Density	Temperature Range (°C)		Flash Point °C
				Min	Max	
Lubrilog L CC 68 M	68	106	0,88	-24	120	> 200°C
Lubrilog L CC 100 M	100	98	0,88	-24	120	> 200°C
Lubrilog L CC 150 M	150	97	0,89	-24	120	> 200°C
Lubrilog L CC 220 M	220	97	0,90	-21	120	> 200°C
Lubrilog L CC 320 M	320	87	0,90	-15	120	> 200°C
Lubrilog L CC 460 M	460	110	0,90	-12	120	> 200°C
Lubrilog L CC 680 M	680	98	0,90	-8	120	> 200°C
Lubrilog L CC 1000 M	1 000	80	0,94	-3	120	> 200°C
Lubrilog L CC 2000 M	2 200	120	0,91	0	120	> 200°C
Lubrilog L CC 3200 M	3 200	132	0,90	3	120	> 200°C
Lubrilog L CC 680 R	680	100	0,92	-8	120	> 180°C

ADVANTAGES

- High viscosity index
- Contains molybdenum disulfide
- Exceptional resistance to seizing
- Excellent extreme pressure resistance and anti-wear properties
- Resistance to high temperatures
- High performance under heavy loads and low speeds
- Contains no bitumen



Gear Fluid®

OILS FOR OPEN GEAR DRIVES

Gear Fluid® is a range of high viscosity oils for the lubrication of heavy duty open gears used in the industries : Cement, ore, steel, coal lines in the thermal stations, fertilizers, chemistry, mining, etc.

CHARACTERISTICS

Products	Viscosity** (mm ² /s)	Viscosity Index	Density	Temperature Range (°C)	
				Min	Max
Gear Fluid 180	4 600	135	0,92	-5	100
Gear Fluid 300	9 000	148	0,92	-5	110
Gear Fluid 550	17 000	180	0,92	0	120
Gear Fluid 1000	25 000	230	0,92	0	120
Gear Fluid 550 D	1 600 / 17 000	180*	0,92*	0*	120*
Gear Fluid 1000 D	2 500 / 25 000	230*	0,92*	0*	120*
Gear Fluid R	680	100	0,92	0	100

Products	Priming	Running-In	Service	Bath or Circulation	Spray	4 Balls Weld Test (daN)
Gear Fluid 180			X	X	X	>800
Gear Fluid 300			X	X	X	>800
Gear Fluid 550			X	X	X	>800
Gear Fluid 1000			X	X		>800
Gear Fluid 550 D			X		X	>800
Gear Fluid 1000 D			X		X	>800
Gear Fluid R		X		X	X	>800

* After solvent evaporation - ** Before / After Solvent evaporation

ADVANTAGES

- Exceptional resistance to scuffing
- Excellent extreme pressure resistance and anti-wear properties
- Ideal for heavy loads and slow speeds
- Contains neither heavy metals nor bitumen



Gearlog®

COMPOUNDS FOR OPEN GEAR DRIVES

Gearlog® is a range of high viscosity white compounds for the lubrication of heavy-duty open gears used in the industries: cement, ore, steel, coal lines in the thermal stations, fertilizers, chemistry, mining, etc.

CHARACTERISTICS

Products	Viscosity*** (mm ² /s)	Viscosity Index	Density	Temperature Range (°C)	
				Min	Max
Gearlog 200	5 700	130	0,91	0	140
Gearlog 500	15 000	175	0,91	0	140
Gearlog 1000	25 000	230	0,91	0	140
Gearlog 500 D	1 600 / 17 000	175*	0,91*	0	140*
Gearlog 1000 D	2 500 / 25 000	230*	0,91*	0	120*
Gearlog R	680	-	0,94	0	140
Gearlog P **	130	NC	NC	-20	120

Products	Priming	Running-In	Service	Bath or Circulation	Spray	4 Balls Weld Test (daN)
Gearlog 200			X	X	X	>800
Gearlog 500			X	X	X	>800
Gearlog 1000			X	X	X	>800
Gearlog 500 D			X		X	>800
Gearlog 1000 D			X		X	>800
Gearlog R		X		X	X	>800
Gearlog P**	X					>500

* After solvent evaporation - ** Grease : Mineral + Al-X - *** Before / After Solvent evaporation

ADVANTAGES

- Exceptional resistance to scuffing
- Excellent extreme pressure resistance and anti-wear properties
- Ideal for heavy loads and slow speeds
- Contains neither heavy metals nor bitumen
- White solid lubricants
- Flame retardant to reduce the risk of fire



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 are compatible with most plastics and elastomers. They are not miscible with other lubricants.

CHARACTERISTICS

Products	Viscosity (mm ² /s)	Viscosity Index	Density	Temperature Range (°C)		Flash Point °C
				Min	Max	
Lubrilog PG OIL 100	100	220	1,06	-40	160	230
Lubrilog PG OIL 150	150	220	1,06	-34	170	230
Lubrilog PG OIL 220	220	230	1,06	-35	170	230
Lubrilog PG OIL 320	320	240	1,08	-33	170	230
Lubrilog PG OIL 460	460	250	1,08	-30	180	230
Lubrilog PG OIL 680	680	260	1,08	-30	180	230
Lubrilog PG OIL 1000	1000	280	1,05	-30	180	230

ADVANTAGES

- Absorb humidity
- Very high viscosity index
- Excellent friction coefficient
- Excellent anti-seizing properties
- No residues at high temperature
- Long service life
- Good compatibility with main plastics and elastomers



Lubrilog LY PAO AW

HIGH PERFORMANCE SYNTHETIC OILS

Lubrilog LY PAO AW range offers optimum resistance to a wide range of temperature and resist to high loads. These lubricants contain selected additives to protect any system against wear and corrosion. They are resistant to oxidation and offer a very long lifetime for the lubrication of heavy-duty gears and bearings.

CHARACTERISTICS

Products	Viscosity (mm ² /s)	Viscosity Index	Density	Temperature Range (°C)		Flash Point °C
				Min	Max	
Lubrilog LY PAO 68 AW	68	134	0,86	-55	150	>225
Lubrilog LY PAO 100 AW	100	130	0,87	-50	150	>225
Lubrilog LY PAO 150 AW	150	129	0,87	-45	150	>225
Lubrilog LY PAO 220 AW	220	128	0,87	-45	150	>225
Lubrilog LY PAO 320 AW	320	129	0,88	-45	150	>225
Lubrilog LY PAO 460 AW	460	127	0,88	-40	150	>225
Lubrilog LY PAO 680 AW	680	148	0,87	-40	160	>225
Lubrilog LY PAO 1000 AW	1 000	153	0,88	-40	160	>225

ADVANTAGES

- No heavy metals
- High viscosity index
- Low friction coefficient
- Excellent anti-seizing properties
- Suitable for low and high temperatures
- High compatibility with most plastics and elastomers



Lubrilog L HM

GENERAL PURPOSE LUBRICANTS FOR HYDRAULIC SYSTEMS

Lubrilog L HM is a range of anti-wear hydraulic lubricants, meeting the specifications of main hydraulic equipment manufacturers. These lubricants have been specifically designed for all hydraulic systems operating under high temperatures and pressures.

CHARACTERISTICS

Products	Viscosity (mm ² /s)	Viscosity Index	Density	Temperature Range (°C)		Flash Point °C
				Min	Max	
Lubrilog L HM 22	22	102	0,87	-30	120	> 200°C
Lubrilog L HM 32	32	102	0,88	-27	120	> 200°C
Lubrilog L HM 46	46	100	0,88	-27	120	> 200°C
Lubrilog L HM 68	68	100	0,89	-21	120	> 200°C
Lubrilog L HM 100	100	100	0,89	-18	120	> 200°C

ADVANTAGES

- Reinforced anti-wear protection
- Good thermal stability
- Good resistance to oxidation
- Reduction of residues
- Good filtration properties



Lubrilog L HV

LUBRICANTS FOR HYDRAULIC SYSTEMS EXPOSED TO EXTREME TEMPERATURES

Lubrilog L HV are anti-wear hydraulic lubricants, meeting the specifications of main hydraulic equipment manufacturers. These lubricants have a high viscosity index and can be used in every hydraulic systems operating under high temperatures and pressures. These lubricants are particularly used in off-road vehicles, to ease starting in cold weather.

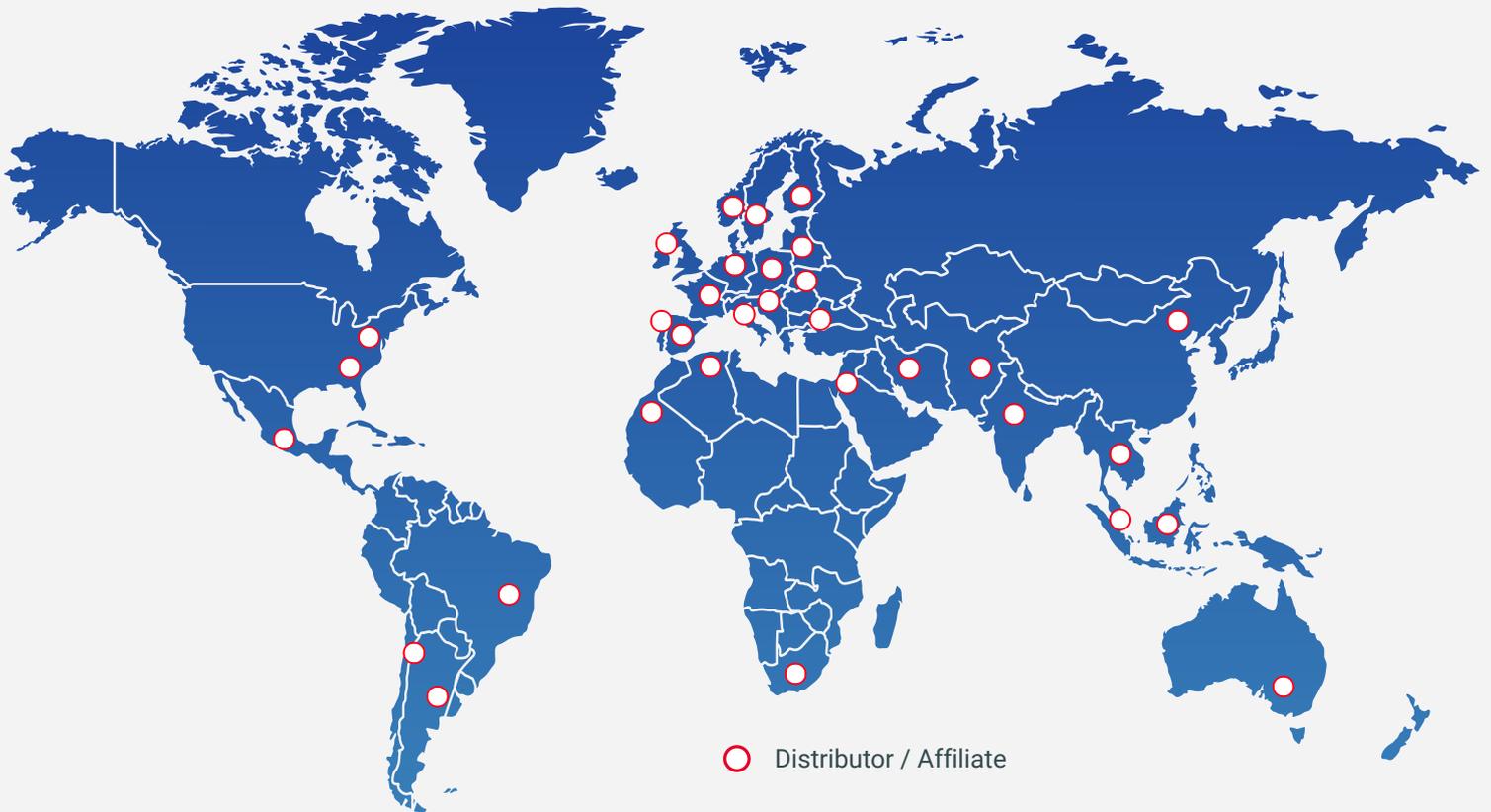
CHARACTERISTICS

Products	Viscosity (mm ² /s)	Viscosity Index	Density	Temperature Range (°C)		Flash Point °C
				Min	Max	
Lubrilog L HV 22	22	164	0,86	-42	120	>180
Lubrilog L HV 32	32	160	0,87	-39	120	>200
Lubrilog L HV 46	46	161	0,87	-39	120	>200
Lubrilog L HV 68	68	161	0,88	-36	120	>200

ADVANTAGES

- Reinforced anti-wear protection
- Good resistance to oxidation
- Prolonged drain intervals
- Reduction of residues
- Good filtration properties

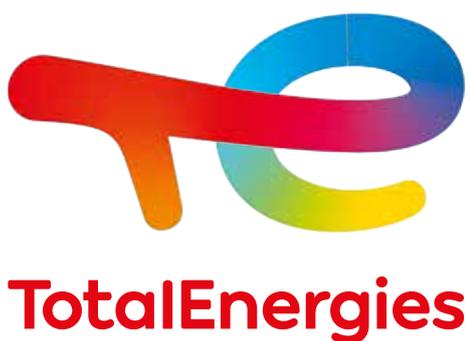
Lubrilog's worldwide presence



HIGH PERFORMANCE LUBRICANTS | CUSTOM-MADE LUBRICANTS

AUTOMOTIVE
CORRUGATED CARDBOARD
AERONAUTICS
INSULATION
WOOD BASED PANEL
NUCLEAR
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