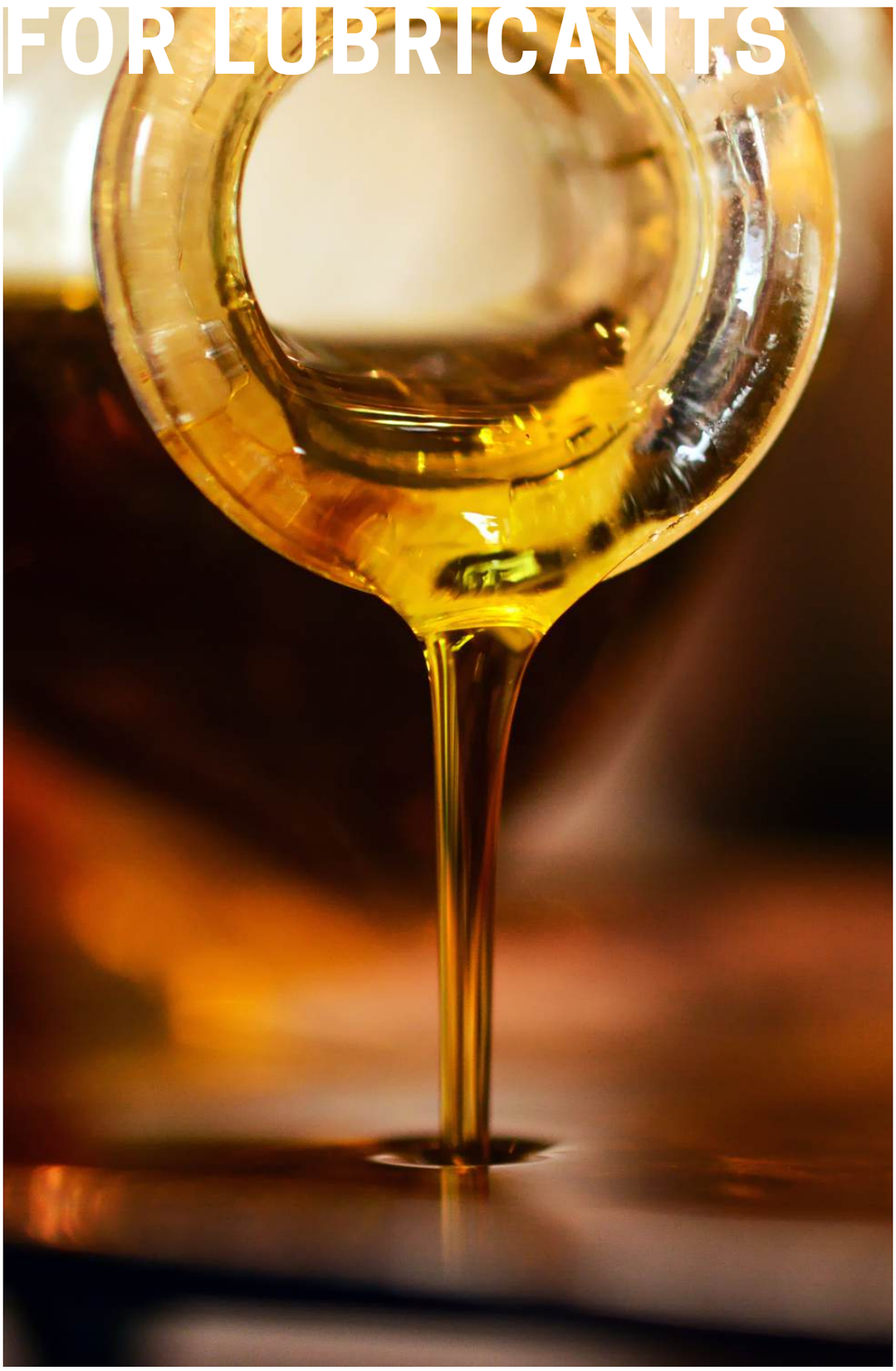
INGREDIENTS FOR LUBRICANTS



MOSSELMAN
OLEOCHEMICALS

THE MOSSELMAN TEAM

TRADITION IN CUSTOMER RELATION

INNOVATION IN CHEMISTRY AND CUSTOMER SERVICE

AN EXTRA TOUCH WITH THE USE OF NATURAL AND RENEWABLE RAW MATERIALS

LOOKING FORWARD TO MEET PERFORMANCE AND COST EFFECTIVENESS WITH RELATION TO CHANGING TECHNOLOGIES, STRONGER REGULATIONS AND NEW MARKET DEMANDS

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CATALOGUE - VERSION JULY 2024

SCAN ME

POLYOL FATTY ESTERS AS BASE OILS

DESCRIPTION	VISCOSITY 40°C (MM2/S)	CLOUD POINT (°C)	POUR POINT (°C)	IODINE VALUE*
TMP TRICOCOATE	36	9	-6	<18
TMP TRIOLEATE	47	<-20	<-30	75-90
PE TETRAOLEATE	62	<-20	-20	75-95
ESTER 610 – MCT GLYCEROL TRI-C8/C10	16	<-10	0	< 1
GLYCEROL TRIOLEATE	45	<-10	<-20	75-95
ESTER PR 91 PROPYLENE GLYCOL DI-C8/C10	< 9	-5	<-20	< 0,5
PROPYLENE GLYCOL DIOLEATE	18	-13	-15	72-85

TMP : TRIMETHYLOLPROPANE
PE : PENTAERYTHRITOL

*(gI2/100g) Fatty esters with an iodine value <3 are considered as saturated and show the best oxidation stability
Among the unsaturated esters, some are based on high oleic fatty acids and remain with a good oxidation stability.

MONOALCOHOL FATTY ESTERS AS BASE OIL, SOLVENT, CARRIER

DESCRIPTION	VISCOSITY AT 40°C MM2/S	CLOUD POINT °C	POUR POINT °C	IODINE VALUE*
BUTYL OLEATE	6	-22	<-25	68-85
BUTYL STEARATE	7	27	22	<1
BUTYL TALLATE	6	<-5	/	150
DECYL OLEATE	10	-16	<-25	50-65
LINSEED ETHYL ESTER	4	8	-17	170-204
RAPESEED OIL ETHYL ESTER	4	<-3	<-5	95-110
ETHYL LINOLEATE	4.4	-10	<-20	140-165
ETHYL OLEATE	5	-3	-5	75-90
2-ETHYLHEXYL C8-C10	5	<-15	-55	<2
2-ETHYLHEXYL COCOATE	5	<-25	<-20	<16
2-ETHYLHEXYL LAURATE	6	<-25	-30	<1
2-ETHYLHEXYL OLEATE	9	<-26	<-20	57-70
2-ETHYLHEXYL PALMITATE	9	-1	<-2	<1
2-ETHYLHEXYL STEARATE	10	11	6	<1
2-ETHYLHEXYL TALLOWATE	9	<-8	-9	33-43
ISOPROPYL LAURATE	4	-6	-7	<1

DESCRIPTION	VISCOSITY AT 40°C MM2/S	CLOUD POINT °C	POUR POINT °C	IODINE VALUE*
ISOPROPYL MYRISTATE	4	0	-3	<1
ISOPROPYL OLEATE	6	<-23	-15	65-86
ISOPROPYL PALMITATE	5	<13	12	<1
LINSEED METHYL ESTERS	3.7	2	-10	>170
RAPESEED METHYL ESTER	6.4	/	/	105-126
SOYBEAN METHYL ESTER	6.6	0	-5	120-140
SUNFLOWER METHYL ESTER	6.2	0	-6	110-143
METHYL ESTERS C12-C14	4	-2	-4	<3
METHYL ESTERS C16-C18	5	5	-8	56-75
METHYL CAPRYLATE-CAPRATE	1-2	<-23	<-25	<0.5
METHYL COCOATE	3	-5	-6	<21
METHYL LAURATE	3	6	5	<1
METHYL OLEATE HO	4	3	-5	80-95
METHYL OLEATE N	4	-12	<-20	83-95
METHYL OLEATE P	4	-12	-15	105-125
METHYL PALMITATE	4.7	27	29	<1
METHYL RICINOLEATE	<20	<-17	<-25	82-90
METHYL TALLATE	4	<-10	<-20	130-160

VEGETABLE OILS

PRODUCT NAME	VISCOSITY AT 40°C (MM2/S)
CASTOR OIL BLOWN 30 P	650
CASTOR OIL 1ST PRESSION	240
CASTOR OIL HYDROGENATED (FLAKES/POWDER)	SOLID
COCONUT OIL REFINED	31
COCONUT OIL HYDROGENATED	SOLID
LINSEED OIL REFINED	30
LINSEED STAND OIL 6-120 P	3060
PALM OIL REFINED	28
PALM OIL HYDROGENATED 58°C	SOLID
RAPESEED OIL REFINED	40
RAPESEED OIL BLOWN 30-35 P	800
SOYBEAN OIL REFINED	45
SOYBEAN OIL HYDROGENATED	SOLID
SUNFLOWER OIL REFINED	35
SUNFLOWER OIL HO	50

ANIMAL OILS

PRODUCT NAME	VISCOSITY AT 40°C (MM2/S)
HELIOREX OLR - LARD OIL	40
TALLOW REFINED	45
WOOL GREASE	SOLID

MINERAL OILS

PRODUCT NAME	VISCOSITY AT 40°C (MM2/S)
WHITE OIL LIGHT	16
WHITE OIL MEDIUM	29
WHITE OIL HEAVY	70
PETROLEUM JELLY (WHITE/YELLOW)	PASTE

FATTY ACIDS

DESCRIPTION	CHAIN LENGHT	PURITY (%)
CAPROIC ACID	C6	98
CAPRYLIC ACID	C8	99
2-ETHYLHEXANOIC ACID	ISO-C8	99
PELARGONIC ACID	C9	98
CAPRIC ACID	C10	99
CAPRYLIC-CAPRIC ACID	C8-C10	60/40
SEBACIC ACID	C10 (DICARBOXYLIC ACID)	99
LAURIC ACID	C12	99
MYRISTIC ACID	C14	98
PALMITIC ACID	C16	98
STEARIC ACIDS	C18	40, 55, 65, 98
12-HYDROXYSTEARIC ACID	C18-OH	85
RICINOLEIC ACID	C18:1-OH	85
OLEIC ACIDS	C18:1	70,80,92
BEHENIC ACID	C22	85
ERUCIC ACID	C22:1	90

DESCRIPTION	CHAIN LENGHT
COCONUT FATTY ACIDS	C8-C18
COCONUT FATTY ACIDS	C12-C18
LINSEED FATTY ACIDS	C18 UNSAT.
RAPESEED FATTY ACIDS	C18 UNSAT.
SOYBEAN FATTY ACIDS	C18 UNSAT.
TALL-OIL FATTY ACIDS (TOFA)	C18 UNSAT.
TALLOW FATTY ACIDS	C18 UNSAT.
WOOL GREASE FATTY ACIDS	C18 UNSAT.

FATTY ALCOHOLS

DESCRIPTION	CHAIN LENGHT	PURITY (%)
2-ETHYLHEXANOL	ISO C8	99
CAPRYL ALCOHOL	C8	98
CAPRIC ALCOHOL	C10	85, 98
LAURYL ALCOHOL	C12	98
LAURO-MYRISTYL ALCOHOLS	C12-C14	50/50 & 70/30
MYRISTYL ALCOHOL	C14	96
CETYL ALCOHOL	C16	95
CETOSTEARYL ALCOHOLS	C16-C18	50/50 & 30/70
STEARYL ALCOHOL	C18	98
OLEOCETYL ALCOHOLS	C18:1-C16	80/85 & 90/95
2-OCTYLDODECANOL	ISO-C20	90

EMULSIFYING POLYOL FATTY ESTERS

DESCRIPTION	HLB	PHYSICAL STATE
ETHYLENE GLYCOL DISTEARATE	1,5	SOLID
ETHYLENE GLYCOL MONOSTEARATE	1,6	SOLID
GLYCEROL MONOCOCOATE 7 EO - ESTER ETO 7	12,9	LIQUID
GLYCEROL MONOOLEATE	2,3	LIQUID
GLYCEROL MONOSTEARATE 40%, 60%, 90%	2,4 – 4	SOLID
GLYCEROL MONOSTEARATE SE (SELF-EMULSIFYING)	-	SOLID
GLYCEROL TRI-CAPRYLATE/CAPRATE - MCT - ESTER 610	-	LIQUID
GLYCEROL TRIOLEATE	-	LIQUID
GLYCEROL TRISTEARATE	-	SOLID
PEG 200 MONOOLEATE	8	LIQUID
PEG 300 MONOOLEATE	10,4	LIQUID
PEG 300 DIOLEATE	7	LIQUID
PEG 300 MONOSTEARATE	9.6	WAXY
PEG 400 DIOLEATE	8,5	LIQUID
PEG 400 MONOCOCOATE	13,1	LIQUID
PEG 400 MONOLAURATE	8,6	LIQUID
PEG 400 MONOOLEATE	13,4	LIQUID
PEG 400 MONORICINOLEATE	11,5	LIQUID
PEG 400 MONOSTEARATE	11	SOLID/PASTE

PRODUCT NAME	HLB	PHYSICAL STATE
PEG 600 DIOLEATE	10,5	LIQUID/PASTE
PEG 600 MONOOLEATE	13,6	LIQUID/PASTE
PEG 1500 MONOSTEARATE	17,6	SOLID
PEG 4000 MONOSTEARATE	16,9	SOLID
PEG 6000 DISTEARATE	18,4	SOLID
PENTAERYTHRITOL MONO-, DI-, TRI-, TETRA-OLEATE	2-2,5	LIQUID
POLYGLYCEROL-4 CAPRATE	16	LIQUID
POLYGLYCEROL POLYRICINOLEATE - PGPR	3	LIQUID
PPG 2000 DIOLEATE	-	LIQUID
PROPYLENE GLYCOL DI-CAPRYLATE/CAPRATE - ESTER PR 91	-	LIQUID
PROPYLENE GLYCOL DIOLEATE	-	LIQUID
SORBITAN MONOLAURATE	7,5	LIQUID/PASTE
SORBITAN MONOOLEATE	5,3	LIQUID
SORBITAN MONOPALMITATE	6	SOLID
SORBITAN MONOSTEARATE	5,3	SOLID
SORBITAN SESQUIOLEATE	5,2	LIQUID
SORBITAN TRIOLEATE	2,8	LIQUID
SORBITAN TRISTEARATE	3,2	SOLID
SORBITAN MONOLAURATE 20 EO - POLYSORBATE 20	16,2	LIQUID
SORBITAN MONOSTEARATE 20 EO - POLYSORBATE 60	15	PASTE
SORBITAN MONOOLEATE 10 EO	12	LIQUID
SORBITAN MONOOLEATE 20 EO - POLYSORBATE 80	15,2	LIQUID
SORBITAN TRIOLEATE 20 EO - POLYSORBATE 85	10,6	LIQUID
TRIMETHYLOLPROPANE TRICOCOATE	-	LIQUID
TRIMETHYLOLPROPANE TRIOLEATE	-	LIQUID
TRIMETHYLOLPROPANE COMPLEX ESTER ISOVG 10-1000	-	LIQUID

NON- IONIC EMULSIFIERS
DISPERSING AGENTS, TENSIDES

COMMERCIAL NAME	DESCRIPTION	HLB
HELIWET FA 10/5	FATTY ALCOHOL C10 OXO 5 EO	11,5
HELIWET FA 10/6	FATTY ALCOHOL C10 OXO 6 EO	12,3
HELIWET FA 10/7	FATTY ALCOHOL C10 OXO 7 EO	13
HELIWET FA 10/8	FATTY ALCOHOL C10 OXO 8 EO	14
HELIWET FA 11/89	FATTY ALCOHOL ISO-C11 + 8 EO 90% SOLUTION	14
HELIWET FA 91/4	FATTY ALCOHOL C10 GUERBET 6 EO	12,5
HELIWET FA 91/6	FATTY ALCOHOL C10 GUERBET 8 EO	14
HELIWET FA 91/6 L	FATTY ALCOHOL C10 GUERBET 8 EO 85% SOLUTION	14
HELIWET FA 91/8	FATTY ALCOHOL C10 GUERBET 10 EO	15
HELIWET FA 91/8 L	FATTY ALCOHOL C10 GUERBET 10 EO 85% SOLUTION	15

COMMERCIAL NAME	DESCRIPTION	HLB
HELIWET FA 13/3	FATTY ALCOHOL ISO-C13 + 3 EO	8
HELIWET FA 13/5	FATTY ALCOHOL ISO-C13 + 5 EO	10,5
HELIWET FA 13/7	FATTY ALCOHOL ISO-C13 + 7 EO	12
HELIWET FA 13/8	FATTY ALCOHOL ISO-C13 + 8 EO	13
HELIWET FA 13/82	FATTY ALCOHOL ISO-C13 + 8 EO 20% SOLUTION	13
HELIWET FA 13/89	FATTY ALCOHOL ISO-C13 + 8 EO 90% SOLUTION	13
HELIWET FA 13/10	FATTY ALCOHOL ISO-C13 + 10 EO	13,5
HELIWET FA 13/12	FATTY ALCOHOL ISO-C13 + 12 EO	14,5
HELIWET FA 13/20	FATTY ALCOHOL ISO-C13 + 20 EO	16,2
HELIWET FA 24/2	FATTY ALCOHOL C12-C14 + 2 EO	6,1
HELIWET FA 24/3	FATTY ALCOHOL C12-C14 + 3 EO	8,1
HELIWET FA 24/4	FATTY ALCOHOL C12-C14 + 4 EO	9
HELIWET FA 24/7	FATTY ALCOHOL C12-C14 + 7 EO	12
HELIWET FA 24/79	FATTY ALCOHOL C12-C14 + 7 EO 90% SOLUTION	12
HELIWET FA 25/3	FATTY ALCOHOL C12-C15 + 3 EO	7,8
HELIWET FA 25/5	FATTY ALCOHOL C12-C15 + 5 EO	10,5
HELIWET FA 25/7	FATTY ALCOHOL C12-C15 + 7 EO	12

COMMERCIAL NAME	DESCRIPTION	HLB
HELIWET FA 35/3	FATTY ALCOHOL C13-C15 + 3 EO	8
HELIWET FA 35/5	FATTY ALCOHOL C13-C15 + 5 EO	10
HELIWET FA 35/7	FATTY ALCOHOL C13-C15 + 7 EO	12
HELIWET FA 35/11	FATTY ALCOHOL C13-C15 + 11 EO	14
HELIWET FA 68/2	FATTY ALCOHOL C16-C18 + 2 EO	6,8
HELIWET FA 68/5	FATTY ALCOHOL C16-C18 + 5 EO	9
HELIWET FA 68/10	FATTY ALCOHOL C16-C18 + 10 EO	13,3
HELIWET FA 68/11	FATTY ALCOHOL C16-C18 + 11 EO	13,5
HELIWET FA 68/20	FATTY ALCOHOL C16-C18 + 20 EO	15
HELIWET FA 68/25	FATTY ALCOHOL C16-C18 + 25 EO (POWDER OR FLAKES)	16
HELIWET FA 68/30	FATTY ALCOHOL C16-C18 + 30 EO	17,6
HELIWET FA 18/2	FATTY ALCOHOL C18 + 2 EO	4,9
HELIWET FA 18/21	FATTY ALCOHOL C18 + 21 EO	15,3
HELIWET OC 2	OLEOCETYL ALCOHOL 2 EO	5
HELIWET OC 5	OLEOCETYL ALCOHOL 5 EO	9,2
HELIWET OC 10	OLEOCETYL ALCOHOL 10 EO	12,4
HELIWET OC 30	OLEOCETYL ALCOHOL 30 EO	16,7

NON- IONIC EMULSIFIERS DISPERSING AGENTS, TENSIDES

COMMERCIAL NAME	DESCRIPTION	HLB
EL 11	CASTOR OIL 11 EO	7
EL 18	CASTOR OIL 18 EO	9
EL 33	CASTOR OIL 33 EO	12
EL 40 80%	CASTOR OIL 40 EO 80% SOLUTION	12,5
EL 60 75%	CASTOR OIL 60 EO 75% SOLUTION	14
EL 200	CASTOR OIL 200 EO	18
HELIWET HCO 40	HYDROGENATED CASTOR OIL 40 EO	15
LANOLIN 30 EO	LANOLIN 30 EO	11
LANOLIN 75 EO	LANOLIN 75 EO	17
STEARIC ACID 40 EO	STEARIC ACID 40 EO	17,3
STEARIC ACID 100 EO	STEARIC ACID 100 EO	18,5
COCONUT AMINE 12 EO	COCONUT AMINE 12 EO	14,3
COCONUT AMINE 15 EO	COCONUT AMINE 15 EO	14,5
TALLOW AMINE 2 EO	TALLOW AMINE 2 EO	5
TALLOW AMINE 11 EO	TALLOW AMINE 11 EO	12,3
TALLOW AMINE 15 EO	TALLOW AMINE 15 EO	14,5

COMMERCIAL NAME	DESCRIPTION	HLB
OLEYLAMINE 2 EO	OLEYLAMINE 2 EO	5
OLEYLAMINE 6 EO	OLEYLAMINE 6 EO	10
OLEYLAMINE 15 EO	OLEYLAMINE 15 EO	12,5
HELIWET NRF 4	MEDIUM CHAIN FATTY ALCOHOL ALKOXYLATES WITH LOW AMOUNTS OF RESIDUAL ALCOHOL AND NARROW RANGE ALKOXYLATION MODERATE FOAMING BEHAVIOUR	11,5
HELIWET NRF 6		12,6
HELIWET APG	ALKYL POLYGLUCOSIDE C8-C10 (HIGH FOAMING—LIGHT COLOR)	13,6
HELIWET PG 225	ALKYL POLYGLUCOSIDE C8-C10 (HIGH FOAMING—DARK COLOR)	13,6
HELIWET PG 650	ALKYL POLYGLUCOSIDE C8-C14 (HIGH FOAMING—LIGHT COLOR)	
HELIWET PG LF	LOW FOAMING ALKYL POLYGLUCOSIDE	
HELIWET PO	LOW FOAMING FATTY ALCOHOL ALKOXYLATES CLOUD POINT IN WATER RANGING FROM 16 TO 75°C CLOUD POINT IN BDG RANGING FROM 20 TO 70°C	

ALKANOLAMIDES

COMMERCIAL NAME	DESCRIPTION
AMIDE KDO	COCONUT DIETHANOLAMIDE + GLYCEROL
AMIDE ODV	OLEIC DIETHANOLAMIDE + DIETHANOLAMINE
SUPERAMIDE ODM	OLEIC DIETHANOLAMIDE
SUPERAMIDE KD	COCONUT DIETHANOLAMIDE
SUPERAMIDE LD	LAURIC DIETHANOLAMIDE
COCONUT MEA	COCONUT MONOETHANOLAMIDE

METALLIC STEARATES

COMMERCIAL NAME

ALUMINIUM STEARATE

CALCIUM STEARATE

MAGNESIUM STEARATE

SODIUM STEARATE

ZINC STEARATE

POLYOLS

COMMERCIAL NAME

GLYCERIN

PENTAERYTHRITOL

POLYETHYLENE GLYCOL 200-20000

POLYGLYCEROL 4

PROPYLENE GLYCOL

SORBITOL 70%

TRIMETHYLOLPROPANE

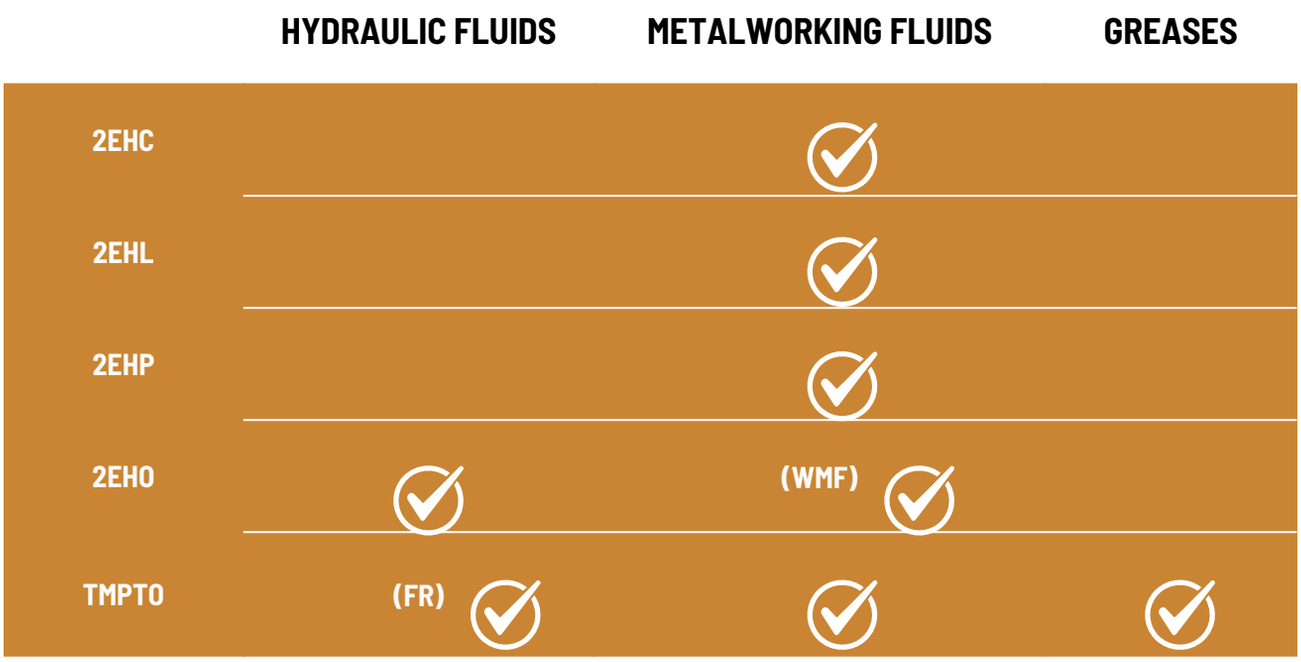
WAXES

COMMERCIAL NAME	COMMERCIAL NAME
ETHYLENE BIS STEARAMIDE	STEARYL STEARATE
PARAFFIN WAX 54/56	CETYL PALMITATE
BEESWAX WHITE - YELLOW - SUBSTITUTE	GLYCEROL TRISTEARATE
CARNAUBA/CANDELILLA WAX	EGDS

MISCELLANEOUS

COMMERCIAL NAME	COMMERCIAL NAME
DIETHANOLAMINE (DEA)	ORANGE TERPENE
DIPENTENE	PINE OIL 70, 90%
FURFURYL ALCOHOL	PINE TAR
GLYCEROL FORMAL	TRIETHANOLAMINE (TEA) 85%, 99%
GUM ROSIN	TURPENTINE

APPLICATION GUIDE SUMMARY



*WMF - Water Miscible Fluid
*FR - Fire Resistant

ESTERS FOR GEAR OILS

Gear lubrication oil is a critical component for the proper functioning of gears and transmissions.

During operation, this lubricant interacts with most of the internal components of the machinery.

In addition to its primary role of lubricating sliding and rolling contacts, the oil also serves to cool and dissipate the frictional heat generated in these contacts.

In many areas of machine designing, lubricants gears require :

- High oxidation stability ;
- Good scuffing ;
- Scoring and wear load capacity ;
- Ability to create a film thickness with an adequately high viscosity at operating temperature.

In our portfolio, we can offer esters that match the requirements for his application :

COMMERCIAL NAME	VISCOSITY @40°C (CST)	POUR POINT °C	THERMAL RESISTANCE	BIODEGRADIBILITY OECD 301B
TMPTC	32	<5	HIGH	> 65%

- Saturated
- High stability at thermo-oxidation
- High flash point
- Excellent lubricity
- Eco-friendly
- Longer life than minerals

In the application, you can add the same additive used in mineral oil or PAO-bases products.

This class of esters is completely miscible in mineral oil or PAO-based products.

ESTERS FOR HYDRAULIC FLUIDS

Hydraulic fluids generally serve the following key functions and possess these essential properties:

- Transmitting pressure and motion energy;
- Transferring forces and moments when used as a lubricant ;
- Reducing wear on sliding surfaces under boundary friction conditions;
- Minimizing friction ;
- Protecting components against corrosion (ferrous/non-ferrous metals) ;
- Dissipating of heat ;
- Maintaining suitable performance across a wide range of temperatures, with good viscosity-temperature behavior;
- Extending the lifespan of machinery, among other benefits.

The diverse range of characteristics required of hydraulic fluids demands specialized performance, which cannot be achieved with a single base oil. Our product portfolio includes esters designed for extended-life applications and products suitable for fire-resistant applications :

FIRE RESISTANT

These fluids have significantly higher ignition temperatures and fire resistant properties than mineral oils.

MAIN PROPERTIES

- Unsaturated products
- High flash point
- Fire resistant
- Poor thermo-oxidation stability

OUR MAIN PRODUCT : TMPTO

LONG LIFE

The required fluid life, availability, economic and ecological factors also determine the type of hydraulic oil used.

MAIN PROPERTIES

- Low viscosity
- Saturation assures long stability high flash point
- Excellent lubricity
- High thermo-oxidation stability

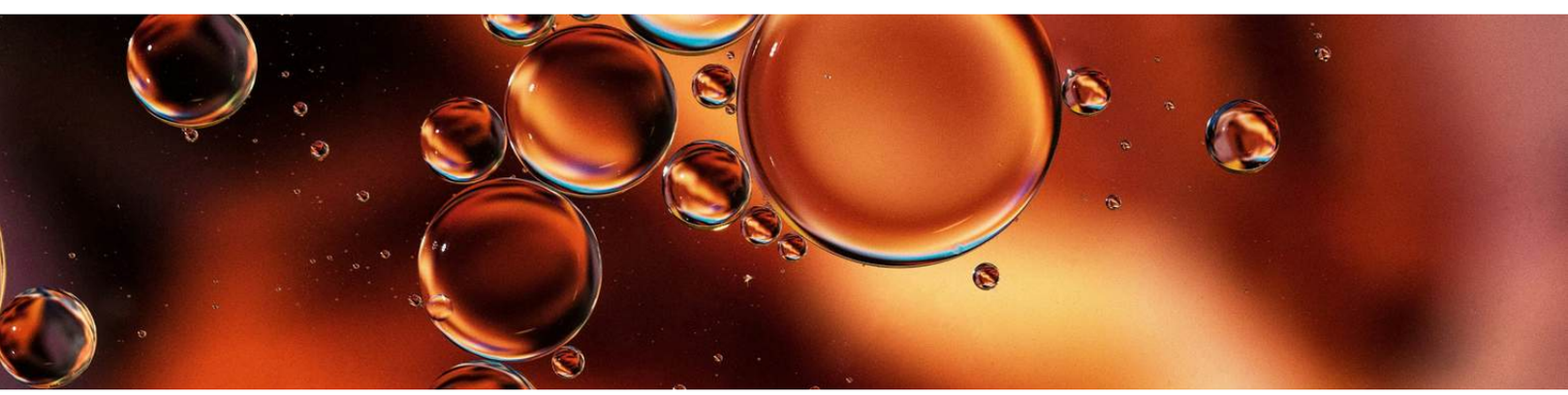
OUR MAIN PRODUCT : TMPTC

- Almost saturated
- Excellent thermo-oxidation stability
- Excellent quality/price ratio
- Moderate pour point

FIRE RESISTANT AND BIODEGRADABLE HYDRAULIC OILS

COMMERCIAL NAME	VISCOSITY @40°C (CST)	*A	FLASH POINT °C	THERMAL RESISTANCE	BIODEGRADIBILITY OECD 301B
TMPTO	46	X	300	MEDIUM	> 80%

*A - Additive package



ESTERS FOR METALWORKING FLUIDS

Various factors impact the lifespan of a metal tool, one of which is the process temperature it is exposed to. To prolong the tool's life, effective cooling is essential to reduce the temperature, ensure proper lubrication in the contact area, and minimize friction.
For this purpose, we use coolants, which serve the following functions:

COOLING

Maintain a consistent temperature in the cutting area by removing the heat generated during machining, preventing deformation of the workpiece.

LUBRICATION

Lubricate the contact area between the chip and the tool face, reducing the cutting forces generated by friction between the workpiece, chip, and tool.

CHIPS REMOVAL

Remove and clean the working area during the process.

These three functions contribute to energy savings, reduced tool wear, and overall cost reduction. For cutting fluids, excellent lubrication and high cooling capacity are essential.

Additionally, several other important features must be considered, such as:

- The cutting fluid should not cause side effects like odors or allergic reactions.
- It must resist foaming, even under high pressure.
- It should not damage the paint on machine tools or corrode gaskets.
- It must prevent corrosion on a wide range of materials, allowing different materials to be processed without needing to change the coolant type.

It is crucial to consider the risk of corrosive attacks on non-ferrous materials, such as copper, brass, and aluminum. The cutting fluid should not adhere to these materials, which could lead to the accumulation of shavings, making tank cleaning more difficult or damaging the surface of the workpiece.

MAIN ESTER FOR WATER-BASED FORMULATIONS

PRODUCT	VISCOSITY @40°C (CST)	FLASH POINT (°C)	POUR POINT (°C)
2EHO	8,5	240	-20

MAIN ESTERS FOR NEAT OIL FORMULATIONS

PRODUCT	VISCOSITY @40°C (CST)	FLASH POINT (°C)	POUR POINT (°C)
2EHL	5	170	-30
2EHC	6	170	-20
2EHP	8,5	180	-5
2EHS	10	180	0

ESTERS FOR TURBINE OILS

PRODUCT	VISCOSITY @40°C (CST)	VISCOSITY INDEX	FLASH POINT (°C)	POUR POINT (°C)	RENEWABLE (%)	BIODEGRADIBILITY OECD 301B
PEMO	60	80	280	-30	90	>65%

TOLL MANUFACTURING

PROCESS	SCOPE
ESTERIFICATION	FROM LAB SAMPLE TO BULK LOADS
FLAKING OR PASTILLATION	MIN. 10 T CAMPAIGNS
DISTILLATION & FILTRATION	MIN. 10 T CAMPAIGNS
BLENDING OF LIQUIDS	UP TO 230°C, VACUUM, NITROGEN BLANKETING
PACKING	IN DRUMS, IBC'S, OPTIONALLY IN CLEAN ROOM
STORAGE CAPACITY	FOR PACKED GOODS, ADR FACILITIES

CERTIFICATION	CERTIFICATION BODY
ISO 9001:2015	PME CERT S.A.
FEED CHAIN ALLIANCE (GMP FEED)	VINÇOTTE
FOOD (FEED) AUTHORISATION	AFSCA
KOSHER	OK, EK
HALAL	EIHC
ORGANIC – BIO	CERTISYS SPRL
RSPO	TUV NORD

1 Check our progress at www.rspo.org
2 Available upon request
3 ISO 9001:2015

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