

An ISO 9001: 2015 CERTIFIED COMPANY



New Generation Lubricants

deliver sustainable & affordable price

Basic Concepts Related to Lubricants

DENSITY

Density refers to the bulk density of the substance. For oils, it is usually expressed at the temperature of +15 °C or +20 °C, and the unit is kg/m3. The densities of lubricant oils vary between approx. 700-950 kg/m3 depending on the base oil's quality, viscosity and additives used.

VISCOSITY

The thicker the liquid the higher its viscosity. The viscosity of lubricant oils is usually declared in cSt (Centistoke) = mm2/s (SI system) or cP (Centipoise) = mPas (SI system).

Temperature must always be mentioned when describing viscosity regardless of what unit is used. All oils thin strongly when the temperature rises. Typical viscosity of SAE 10W engine oil in -20 °C temperature may be 2,000 cP, but if it heats up to +100 °C, the viscosity will be as low as 5.2 cSt

VISCOSITY INDEX

The Viscosity index (VI) refers to the propensity of liquids to thin as temperature rises. The more the liquid in question thins, the lower its viscosity index. VI of single grade engine oils is approx. 95–110, while that of multigrade oils may exceed 200.

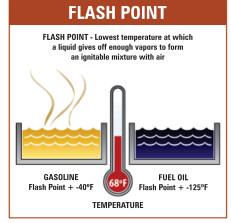
FLASH POINT

Flash point refers to the flammability of fluids. Flash point is the temperature at which the fluid emits so much flammable gas measured with a certain method that they flare up when lit with open fire while the fluid itself does not remain burning.

IGNITION TEMPERATURE

Ignition temperature is the temperature at which the gases evaporate when a fluid is heated in an open fire pot burn for at

least five seconds when lit with open fire. The ignition temperature is typically 10–50 $^{\circ}$ C higher than the flash point.



POUR POINT

Oil thickens when the temperature drops. At a certain temperature, it no longer flows at its own weight. This temperature is referred to as the pour point. The pour point depends, among other things, on the viscosity of the oil and its chemical structure. In paraffinic oils, thickening is caused by the wax in the oil, which can be distinguished as crystals. The more the oil cools down the larger the crystals grow, eventually forming a network obstructing the flow within the oil.

ALKALI CHARGE

When the engine is running, acidic compounds caused by the combustion of fuel enter the fuel and these must be neutralized in order to prevent corrosion of metal parts. For this reason, engine oils contain additives to create an alkali charge. Its amount is expressed in terms of total base number (TBN).

Storage and Handling of Lubricants

The storage location and conditions must be chosen so that water and impurities cannot contaminate the lubricant. The storage location must be sheltered from rain and as little subject to changes in temperature as possible. Changes in temperature may cause condensation in containers that are not tightly shut. It is best to store barrels on their sides so that the fill hole is below the oil level.

Products sensitive to freezing, such as metal working emulsions and detergents must be transported and stored safe from freezing.

Official guidelines and regulations must be followed when handling lubricants, oils and

chemical. For more detailed product-specific information, see the safety data sheets.





Industrial Hydraulic Oils

Globalsynth **Hydraulic HLP 32**



Industrial Hydraulic Oil

Meets or exceeds the following quality criteria: DIN 51524 HLP DIN 51524 HL ISO 6743: ISO-L-HM Cincinnati Machine P-68, Denison HF-0, HF-1, HF-2 Vickers I-286-S, M-2950-S

	Efficient protection against wear
\bigcirc	against wear

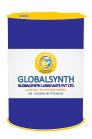




?	No thinning during use

Product number	ISO VG	Density kg/m³ +15 °C	Viscosity mm²/s (o 40 °C	,	Viscosity index	Pour point °C	Flash point (COC) °C
1221	32	855	32	5.5	115	-33	224

Globalsynth **Hydraulic HLP 46**



Industrial Hydraulic Oil

Meets or exceeds the following quality criteria: DIN 51524 HLP DIN 51524 HL

ISO 6743: ISO-L-HM Cincinnati Machine P-70, Denison HF-0, HF-1, HF-2 Vickers I-286-S, M-2950-S Efficient protection against wear

Good corrosion protection

Oxy Good oxidation resistance

? No thinning during use

Product number	ISO VG	Density kg/m³ +15 °C	Viscosity mm²/s (40 °C	,	Viscosity index	Pour point °C	Flash point (COC) °C
1222	46	855	46	6.81	115	-18	230

Globalsynth **Hydraulic HLP 68**



Industrial Hydraulic Oil

Meets or exceeds the following quality criteria: DIN 51524 HLP DIN 51524 HL ISO 6743: ISO-L-HM Cincinnati Machine P-69, Denison HF-0, HF-1, HF-2 Vickers I-286-S, M-2950-S Efficient protection against wear

Good corrosion protection

Good oxidation resistance

No thinning during use

Product number	ISO VG	Density kg/m³ +15 °C	Viscosity mm²/s (o 40 °C	,	Viscosity index	Pour point °C	Flash point (COC) °C
1223	68	868	68	8.9	115	-12	238

Globalsynth **Hydraulic HLP 100**



Industrial Hydraulic Oil

Meets or exceeds the following quality criteria: DIN 51524 HL DIN 51524 HLP ISO 6743: ISO-L-HM Denison HF-0, HF-1, HF-2 Vickers I-286-S, M-2950-S Efficient protection against wear

Good corrosion protection

Good oxidation resistance

? No thinning during use

Product number	ISO VG	Density kg/m³ +15 °C	Viscosity mm²/s (d 40 °C	,	Viscosity index	Pour point °C	Flash point (COC) °C
1224	100	885	100	11.4	115	-12	254

Globalsynth **Hydraulic HLP 150**



Industrial Hydraulic Oil

Meets or exceeds the following quality criteria: DIN 51524 HL **DIN 51524 HLP**

ISO 6743: ISO-L-HM Denison HF-0, HF-1, HF-2 Vickers I-286-S, M-2950-S



Efficient protection against wear



Good corrosion protection



Good oxidation resistance



No thinning during use

Product number	ISO VG	Density kg/m³ +15 °C	Viscosity mm²/s (d 40 °C	,	Viscosity index	Pour point °C	Flash point (COC) °C
1225	150	876	150	15.7	108	-12	252

GLOBALSYNTH

Industrial Hydraulic Oils

Globalsynth **AW 32 Hydraulic**



Industrial Hydraulic Oil

Meets or exceeds the following quality criteria: DIN 51524 Part 2&3 DIN 51524 HL ISO 6743: ISO-L-HM

Cincinnati Machine P-68, Denison HF-0, HF-1, HF-2 Vickers I-286-S, M-2950-S



Efficient protection against wear



Good corrosion protection



Anti - Rust Protection



Low sludge formation

Product number	ISO VG	Density kg/m³ +15 °C	Viscosity mm²/s (40 °C	,	Viscosity index	Pour point °C	Flash point (COC) °C
1226	32	853	32	5.5	110	-18	220

Globalsynth **AW 46 Hydraulic**



Industrial Hydraulic Oil

Meets or exceeds the following quality criteria: DIN 51524 Part 2&3 DIN 51524 HL

ISO 6743: ISO-L-HM Cincinnati Machine P-70, Denison HF-0, HF-1, HF-2 Vickers I-286-S, M-2950-S



Efficient protection against wear



Good corrosion protection



Anti - rust Protection



Low sludge formation

Product number	ISO VG	Density kg/m³ +15 °C	Viscosity mm²/s (40 °C	,	Viscosity index	Pour point °C	Flash point (COC) °C
1227	46	858	46	6.81	110	-18	220

Globalsynth **AW 68 Hydraulic**



Industrial Hydraulic Oil

Meets or exceeds the following quality criteria: DIN 51524 Part 2&3 DIN 51524 HL

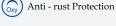
ISO 6743: ISO-L-HM Cincinnati Machine P-69, Denison HF-0, HF-1, HF-2 Vickers I-286-S, M-2950-S



Efficient protection against wear



Good corrosion protection





Low sludge formation

Product number	ISO VG	Density kg/m³ +15 °C	Viscosity mm²/s (40 °C	,	Viscosity index	Pour point °C	Flash point (COC) °C
1228	68	868	68	8.9	110	-12	230

Globalsynth **AW 100 Hydraulic**

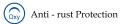


Industrial Hydraulic Oil

Meets or exceeds the following quality criteria: DIN 51524 Part 2&3 DIN 51524 HLP ISO 6743: ISO-L-HM Denison HF-0, HF-1, HF-2 Vickers I-286-S, M-2950-S

	Efficient protection against wear
\bigcirc	against wear







Product number	ISO VG	Density kg/m³ +15 °C	Viscosity mm²/s (6 40 °C	,	Viscosity index	Pour point °C	Flash point (COC) °C
1229	100	892	100	11.4	110	-12	238

Globalsynth **AW 150 Hydraulic**



Industrial Hydraulic Oil

Meets or exceeds the following quality criteria: DIN 51524 HL Part 2&3 DIN 51524 HLP ISO 6743: ISO-L-HM Denison HF-0, HF-1, HF-2 Vickers I-286-S, M-2950-S Efficient protection against wear

Good corrosion protection

Anti - rust Protection

A Low sludge formation

Product number	ISO VG	Density kg/m³ +15 °C	Viscosity mm²/s (d 40 °C	,	Viscosity index	Pour point °C	Flash point (COC) °C
1230	150	885	150	15.7	108	-12	246

GLOBALSYNTH

Industrial Gearbox Oils

Globalsynth **EP 68 Gear Oil**



EP Gear Oil for Industrial use

Meets or exceeds the following quality criteria: DIN 51517-3 (CLP) ISO-L-CKC 68 AGMA 9005-E02 2 EP David Brown 2EP EP Excellent EP properties

Good corrosion protection

Excellent oxidation resistance

Product number	ISO VG class	Density kg/m³ +15 °C	Viscosity mm²/s (cSt) 40 °C 100 °C		Viscosity index	Pour point °C	Flash point (COC) °C
1231	68	880	68	8.8	105	-30	230

Globalsynth **EP 90 Gear Oil**



EP Gear Oil for Industrial use

Meets or exceeds the following quality criteria:
DIN 51517-3 (CLP)

ISO-L-CKC 100 AGMA 9005-E02 3 EP David Brown 3EP EP Excellent EP properties

Good corrosion protection

Excellent oxidation resistance

Product number	SAE	Density kg/m³ +15 °C	Viscosity mm²/s (cSt) 40 °C 100 °C		Viscosity index	Pour point °C	Flash point (COC) °C
1232	90	883	168	14.4	105	-27	247



Globalsynth **EP 100 Gear Oil**



EP Gear Oil for Industrial use

Meets or exceeds the following quality criteria: DIN 51517-3 (CLP)

ISO-L-CKC 100 AGMA 9005-E02 3 EP David Brown 3EP

Excellent EP properties

Good corrosion protection

Excellent oxidation resistance

Product number	ISO VG class	Density kg/m³ +15 °C	Viscosity mm²/s (c 40 °C		Viscosity index	Pour point °C	Flash point (COC) °C
1233	100	883	100	11.4	105	-27	240

Globalsynth **EP 150 Gear Oil**



EP Gear Oil for Industrial use

Meets or exceeds the following quality criteria: DIN 51517-3 (CLP)

ISO-L-CKC 150 AGMA 9005-E02 4 EP David Brown 4EP

Excellent EP properties



Good corrosion protection



Excellent oxidation resistance

Product number	ISO VG class	Density kg/m³ +15 °C	Viscosity mm²/s (cSt) 40 °C 100 °C		Viscosity index	Pour point °C	Flash point (COC) °C
1234	150	886	150	14.9	105	-27	240

Globalsynth EP 220 Gear Oil



EP Gear Oil for Industrial use

Meets or exceeds the following quality criteria: DIN 51517-3 (CLP) ISO-L-CKC 220

AGMA 9005-E02 5 EP David Brown 5EP U.S. Steel 224

Excellent EP properties



Good corrosion protection



Excellent oxidation resistance

Product number	ISO VG class	Density kg/m³ +15 °C	Viscosity mm²/s (cs 40 °C		Viscosity index	Pour point °C	Flash point (COC) °C
1235	220	892	220	19.0	105	-21	240

Globalsynth EP 320 Gear Oil



EP Gear Oil for Industrial use

Meets or exceeds the following quality criteria: DIN 51517-3 (CLP) ISO-L-CKC 320

AGMA 9005-E02 6 EP David Brown 6EP U.S. Steel 224





Good corrosion protection

	бху Е	xcellent oxidat	ion resistance

Product number	ISO VG class	Density kg/m³ +15 °C	Viscosity mm²/s (cSt) 40 °C 100 °C		Viscosity index	Pour point °C	Flash point (COC) °C
1236	320	898	320	24.2	105	-12	240

Globalsynth **EP 460 Gear Oil**



EP Gear Oil for Industrial use

Meets or exceeds the following quality criteria: DIN 51517-3 (CLP) ISO-L-CKC 460 AGMA 9005-E02 7 EP David Brown 7EP U.S. Steel 224

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Excellent EP properties



Good corrosion protection



Excellent oxidation resistance

Product number	ISO VG Class	Density kg/m³ +15 °C	Viscosity mm²/s (cSt) 40 °C 100 °C		Viscosity index	Pour point °C	Flash point (COC) °C
1237	460	902	460	31.1	105	-18	250

Globalsynth **EP 680 Gear Oil**



EP Gear Oil for Industrial use

Meets or exceeds the following quality criteria: DIN 51517-3 (CLP) ISO-L-CKC 680 AGMA 9005-E02 8 EP U.S. Steel 224

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Excellent EP properties



Good corrosion protection



Excellent oxidation resistance

Product number	ISO VG class	Density kg/m³ +15 °C	Viscosity mm²/s (cSt) 40 °C 100 °C		Viscosity index	Pour point °C	Flash point (COC) °C
1238	680	902	680	41.7	105	-12	268

GLOBALSYNTH

Synthetic Chain Oil

Global synthetic **HTC 600 Chain oil**



Synthetic 600 Chain Oil

High Temperature Synthetic Chain oil DIN 51757

Conveyor lubricant Long Life

_	
(Soul)	
(Oxy)	

Excellent oxidation resistance

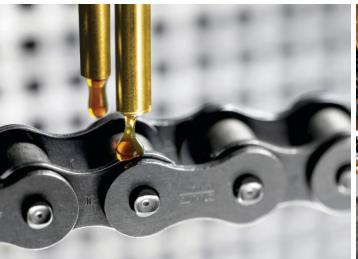


Low Evaporation



Silicon Based

Product number	Density kg/m3 +15°c	Viscosity index	Pour point	Flash Point (coc)°C	viscosity cSt 40°c	Evaporation loss at 210 °c for 2hrs
1239	941	150	-37	280	220	Less than 2%











Air Compressor Oils

Globalsynth **Compressor 68**



Piston Compressor Oil

Meets or exceeds the following quality criteria: **DIN 51506 VDL**

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Good oxidation resistance





Very low carbon build-up



Good rust prevention properties

Product number	ISO VG class	Density kg/m³ +15 °C	Viscosity mm²/s (cS 40 °C	st) 100 °C	Viscosity index	Pour point °C	Flash point (COC) °C
1240	68	870	68	8.8	110	-27	254

Globalsynth **Compressor 100**



Piston Compressor Oil

Meets or exceeds the following quality criteria: **DIN 51506 VDL**



Good oxidation resistance



Ash less



Very low carbon build-up



Good rust prevention properties

Product number	ISO VG class	Density kg/m³ +15 °C	Viscosity mm²/s (c 40 °C	St) 100 °C	Viscosity index	Pour point °C	Flash point (COC) °C
1241	100	882	100	11.4	110	-27	268

Globalsynth **Compressor 150**



Piston Compressor Oil

Meets or exceeds the following quality criteria: **DIN 51506 VDL**



Good oxidation resistance



Ash less



Very low carbon build-up



Good rust prevention properties

Product number	ISO VG class	Density kg/m³ +15 °C	Viscosity mm²/s (cs 40 °C	St) 100 °C	Viscosity index	Pour point °C	Flash point (COC) °C
1242	150	885	150	14.7	110	-21	280

Globalsynth Compressor 220



Piston Compressor Oil

Meets or exceeds the following quality criteria: **DIN 51506 VBL**



Good oxidation resistance



Ash less



(A) Very low carbon build-up



Good rust prevention properties

Product number	ISO VG class	Density kg/m³ +15 °C	Viscosity mm²/s (cs 40 °C	St) 100 °C	Viscosity index	Pour point °C	Flash point (COC) °C
1243	220	891	220	19	110	-21	270

GLOBALSYNTH

Synthetic Compressor Oils

Globalsynth Compressor **VDL 46**



Synthetic Compressor Oil

Meets or exceeds the following quality criteria: DIN 51506 VDL, ISO 6743-3A-DAJ



Excellent oxidation stability



Excellent antiwear properties



Very low deposits



Very good cold properties

Product number	ISO VG class	Density kg/m³ +15 °C	Viscosity mm²/s (cS 40 °C	St) 100 °C	Viscosity index	Pour point °C	Flash point (COC) °C
1244	46	857	45	7,5	133	-39	240

Globalsynth Compressor **VDL 68**



Synthetic Compressor Oil

Meets or exceeds the following quality criteria: **DIN 51506 VDL** ISO 6743-3A-DAJ



Excellent oxidation stability



Excellent antiwear properties



Very low deposits



Very good cold properties

Product number	ISO VG class	Density kg/m³ +15 °C	Viscosity mm²/s (cS 40 °C	St) 100 °C	Viscosity index	Pour point °C	Flash point (COC) °C
1245	68	862	68	9,8	133	-39	234

Globalsynth Compressor **VDL 100**



Synthetic Compressor Oil

Meets or exceeds the following quality criteria: DIN 51506 VDL, ISO 6743-3A-DAJ



Excellent oxidation stability



Excellent antiwear properties



Very low deposits



🗱 Very good cold properties

Product number	ISO VG Class	Density kg/m³ +15 °C	Viscosity mm²/s (cs 40 °C	St) 100 °C	Viscosity index	Pour point °C	Flash point (COC) °C
1246	100	853	100	11	133	-39	240

Quenching Oils

Globalsynth **Quenching Oil**



Heat Treatment Oil

Meets or exceeds the following quality criteria: IS 2664:1980 (Reaffirmed 2014)

Excellent oxidation and temperature resistance
temperature resistance



High stable quench speed High flash point

Product number	Density kg/m3 +20 [°] c	Viscosity index	pour point	Flash point (COC) ^o c	Viscosity mm²/ s (cSt) 40 °C
1247	865	105	_18	265	32

GLOBALSYNTH

Transformer Oils

Globalsynth **Trans 50**



Transformer Oil

Meets or exceeds the following quality criteria: 'EC 60296 (ed.4) ASTM D 3487 Type II

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High dielectric strength



Excellent performance at low temperatures



Good cooling properties



Good oxidation resistance

Product number	Density kg/m3 +20°c	Viscosity index	Pour point	Flash point (coc)°c	Cold viscosity cSt-30°c	Dielectric strength kV	Viscosity mm²/s (cSt) 40 °C
1248	895	110	-10	142	1800	50	15

GLOBALSYNTH

Spintek Superior Spindle Oil

Globalsynth **Spintek 12 Spindle Oil**



Spintek 12 Superior Spindal Oil

Horizntal,verticle,bed-type

Knee-type, and turret-type CNC Milling Machines



Excellent oxidation resistance and thermal stability



Long service life for reduced operating & maintenance costs Non-Staining

Product number	Density kg/m3 +20 °c	Viscosity index	Pour point	Flash point (coc)°c	Viscosity mm ² /s (cSt) 40 °C
1249	849	105	-36	175	12

Globalsynth **Spintek 22 Spindle Oil**



Spintek 22 Superior Spindal Oil

Horizontal, Verticle, bed-type

Knee-type, and turret-type CNC Milling Machines



Excellent oxidation resistance and thermal stability



Long service life for reduced operating & maintenance costs Non-Staining

Product number	Density kg/m3 +20 °c	Viscosity index	Pour point	Flash point (coc)°c	Viscosity mm²/s (cSt) 40 °C
1250	856	105	-37	188	22

Machining Fluids

Metal removal is the most common machining method. These methods include lathing, drilling, planing, reaming and grinding.

Machining fluids are used as cooling and lubricating agents, and they are used for lubrication, cooling, purging chips created and giving protection against corrosion throughout the process.

The three main types of machining fluids are oils, emulsions and aqueous solutions. Each type has their special properties:

Oils: Good lubrication ability + possible EP additives + lower cooling ability

Emulsions: Good cooling ability + lower lubricating ability + possible EP additives

Aqueous solutions: Excellent cooling ability + lower lubricating ability

ADDITIVES

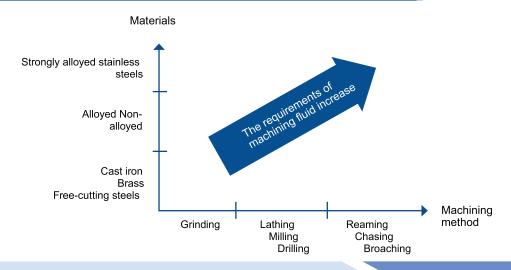
Typical additives used in machining fluids include

- EP additives enhancing lubrication in high temperatures. May darken yellow metals.
- Anti-corrosive agents protecting machines and objects worked on from corrosion.
- ullet Anti-foam agents used to prevent the foaming of water soluble machining liquids in particular.
- Emulgators generating oil-water emulsion.
- Biocides, which protect emulsions and aqueous solutions from micro-organisms thus lengthening the service life of machining fluids.

CHOOSING A MACHINING FLUID

Machining methods and values, the requirements of the metal worked on, tool properties as well as other conditions determine which machining liquids will be used. Difficult materials and slow machining methods emphasize good lubricating ability and EP properties, in which case the right choice often is a machining oil. Correspondingly, fast machining methods require very good cooling ability and the best result is often achieved with aqueous solutions. Emulsions combine the good lubrication and cooling properties and they are often suitable for even more demanding machining tasks.

MACHINING FLUIDS IN WORKING METALS



Machining Fluids: Emulsions

Globalsynth **Solcut EP Cutting**



Emulsifiable Machining Fluid

Water Soluble Emulsifiable Machining fluid

6	Eff
9	LIL

fective lubrication



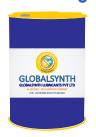
Good cooling properties



Prevents bacterial and fungal growth

Product number	Density kg/m³ +15 °C	Viscosity cSt / 40 °C	pH (5%)	Refractometer index
1251	870	25	9.1	0.9

Globalsynth **Premium Solcut EP Cutting**



Premium Solcut EP Cutting

Water Soluble Emulsifiable Machining fluid

Effcient anti-wear / EP additives



Effcient anti-corrosion properties



Very stable emulsion



Prevents bacterial and fungal

Product number	Density kg/m³ +15 °C	Viscosity cSt / 40 °C	pH (5%)	Refractometer index
1252	880	35	9.1	1.0

GLOBALSYNTH

Slideway Oils

Globalsynth Slideway 32



Slideway Oil

Meets or exceeds the following quality criteria: ISO-L-G 32



Excellent stick-slip properties



Excellent lubricating properties



Excellent adhesion



Excellent wear resistance

Product number	ISO VG class	ISO-L-G class	Density kg/m³ +15 °C	Viscosity mm²/s (cs 40 °C		Viscosity index	Pour point °C	Flash point (COC) °C
1253	32	32	872	32	5.6	110	-18	225

Globalsynth Slideway 68



Slideway Oil

Meets or exceeds the following quality criteria: ISO-L-G 68



Excellent stick-slip properties



Excellent lubricating properties



Excellent adhesion



Excellent wear resistance

Product number	ISO VG class	ISO-L-G class	Density kg/m³ +15 °C	Viscosit mm²/s (40 °C	,	Viscosity index	Pour point °C	Flash point (COC) °C
1254	68	68	880	68	9	110	-24	230

Globalsynth **Slideway 220**



Slideway Oil

Meets or exceeds the following quality criteria: ISO-L-G 220



Excellent stick-slip properties



Excellent lubricating properties



Excellent adhesion



Excellent wear resistance

Product number	ISO VG class	ISO-L-G class	Density kg/m³ +15 °C	Viscosity mm²/s (o 40 °C	,	Viscosity index	Pour point °C	Flash point (COC) °C
1255	220	220	893	220	19.1	97	-9	250

GLOBALSYNTH

Heavy Equipment Diesel Engine Oils

Globalsynth **Turbo+ 5W-30**













Fully Synthetic Multigrade Diesel Engine Oil

Meets or exceeds the following quality criteria: ACEA E7/E4 Cummins CES 20,071/-2/-6/-7 Mack EO-M+ MAN M3277 MB 228.5 MTU Type 3 Renault RVI RXD Scania LDF-3/LDF-2/LDF Volvo VDS-3, VDS-2



Excellent cold start properties



Excellent fuel-saving properties



Long oil change intervals

Product number	SAE	Density kg/m³ +15 °C	Viscosity mm²/s (6 40 °C		Viscosity index	Pour point °C	Pumpability limit temperature °C
1256	5W-30	860	72	12	165	-54	<-35

Globalsynth **Turbo+ 10W-40**







Synthetic Diesel Engine Oil

Meets or exceeds the following quality criteria: API CF ACEA E7/E4 Deutz DQC III-05 MAN M3277 MB-Approval 228.5 MTU Type 3 Renault RXD/RLD-2 Scania LDF-3, LDF-2/LDF Volvo VDS-3



Good cold start properties



Helps reduce fuel consumption

Long oil change intervals

Product number	SAE	Density kg/m³ +15 °C	Viscosity mm²/s (o 40 °C	,	Viscosity index	Pour point °C	Pumpability limit temperature °C
1257	10W-40	867	89	13.5	152	-39	<-30

Globalsynth **Turbo LXE 15W-40**













Multigrade Diesel Engine Oil

Meets or exceeds the following quality criteria: API CI-4, CH-4/SL ACEA E7/E5/E3 Caterpillar ECF-2, ECF-1-a Cummins CES 20,071/-2/-6/-7/-8 Deutz DQC III-10

Global DHD-1

JASO DH-1 Mack EO-N, EO-M Plus MAN M3275 MB-Approval 228.3 MTU Type 2 Renault RVI RLD, RLD-2



Protects against wear



Keeps the engine clean

Product number	SAE	Density kg/m³ +15 °C	Viscosit mm²/s (40 °C	,	Viscosity index	Pour point °C	Pumpability limit temperature °C
1258	15W-40	870	106	14.9	145	-36	<-25

Volvo VDS-3, Volvo VDS-2

Globalsynth Turbo S 15W-40

Fully Synthetic Diesel Engine Oil



Keeps the engine clean

Meets or exceeds the following quality criteria: API CF, CE, CD/SF CCMC D5, PD2 CCMC D5, PD2SHPD

Mack EO-K/2 MIL-L-2104 E Volvo Truck Manual Gear Boxes Volvo VDS

Product number	SAE	Density kg/m³ +15 °C	Viscosit mm²/s (40 °C		Viscosity index	Pour point °C	Pumpability limit temperature °C
1259	15W-40	875	91	14.0	142	-42	-33

Globalsynth Diesel 10W-30









Meets or exceeds the following quality criteria: API CF-4, CF, CE, CD/SF ACEA E2

Allison C-3 Caterpillar TO-2 Mack EO-J MIL-L-2104 E



(* Good cold start properties



Protects against wear

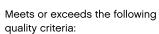
Product number	SAE	Density kg/m³ +15 °C	Viscosit mm²/s (40 °C	,	Viscosity index	Pour point °C	Pumpability limit temperature °C
1260	10W-30	865	70	10.6	125	-36	<-30

Globalsynth Diesel 15W-40







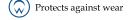


Multi grade Diesel Engine Oil

API CF-4, CF, CE, CD/SF ACEA E2

Allison C-3

Caterpillar TO-2 Mack EO-J MIL-L-2104 E



Product number	SAE	Density kg/m³ +15 °C	Viscosit mm²/s (40 °C	,	Viscosity index	Pour point °C	Pumpability limit temperature °C
1261	15W-40	885	107	14.1	120	-33	<-25



Lubricating Greases

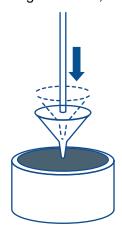
Lubricating greases are mineral and synthetic oils thickened with various thickeners and soaps. In addition, lubricating greases may contain various additives to improve their lubricating and EP properties as well as corrosion prevention.

Depending on the demands of the lubrication target, you may choose a lubricating grease with optimal operating temperature, lubricating properties and penetration/viscosity. Globalsynth lubricating greases are lithium and calcium -based greases containing complex thickeners covering even demanding use targets in traffic and industry.

PENETRATION

The hardness of a lubricating grease is determined with a test where a metal cone is left to freely sink into the grease at a standard temperature (25 °C) after which the result is given in tenths of a millimeter. The higher the NLGI number a grease has, the thicker the grease.

NLGI number	Penetration limits
000	445–475
00	400–430
0	355–385
1	310–340
2	265–295
3	220–250
4	175–205
5	130–160
6	84–115



THICKENERS

The performance of a lubricating grease depends on the common effect of base oil and additives as well as on the properties of the thickener chosen.

Typical properties of thickeners:

Lithium	Lithium complex	Calcium (water-free)
••• excellent mechanical resistance	••• excellent mechanical resistance	••• excellent mechanical resistance
••• fair water resistance	••• good water resistance	••• good water resistance
••• good temperature resistance	••• good temperature resistance	••• average temperature resistance
	••• suitable for long mainte -	

MISCIBILITY

	Lithium	Lithium complex	Calcium	Calcium complex	Sodium
Lithium		Yes	Yes	No	No
Lithium complex	Yes		No	No	No
Calcium	Yes	No		No	No
Calcium complex	No	No	No		No
Sodium	No	No	No	No	

nance intervals

Industrial Lubricating Greases

Globalsynth EP 0



Grease for general use

Meets or exceeds the following quality criteria: DIN 51502: KP0K-30

ISO 12924: ISO-L-XC(F)CIB0



(Multi-purpose



Good Pumpability



Good rust prevention properties



Good wear resistance and EP properties

Product number	Density kg/m³ +20 °C	NLGI hardness	Thickener type	Drop point °C	Operating temperature range °C	Base oil viscosity cSt
1262	920	0	Lithium	>160	-30 +120	200

Globalsynth EP 1



Grease for general use

Meets or exceeds the following quality criteria:

DIN 51502: KP1K-30 ISO 6743: ISO-L-XCCFB1



(Multi-purpose



Good Pumpability



Good rust prevention properties



Good wear resistance and EP properties

Product number	Density kg/m³ +20 °C	NLGI hardness	Thickener type	Drop point °C	Operating temperature range °C	Base oil viscosity cSt
1263	930	1	Lithium	>180	-30 +120	200

Globalsynth **EP 2**



Grease for general use

Meets or exceeds the following quality criteria:

DIN 51502: KP2K-30 ISO 6743: ISO-L-XCCIB2 MAN 283 Li-P 2 MB Blatt 267.0 VOLVO Std 1277.18

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Multi-purpose



(O) Good Pumpability



Good rust prevention properties



Good wear resistance and

EP properties

Product number	Density kg/m³ +20 °C	NLGI hardness	Thickener type	Drop point °C	Operating temperature range °C	Base oil viscosity cSt
1264	950	2	Lithium	>180	-30 +120	200

Globalsynth EP3



Grease for general use

Meets or exceeds the following quality criteria:

DIN 51502: KP2.5K-30 ISO 6743: ISO-L-XCCIB2.5 Volvo Std 97718



(Multi-purpose



(Q) Good Mechanical resistance

Product number	Density kg/m³ +20 °C	NLGI hardness	Thickener type	Drop point °C	Operating temperature range °C	Base oil viscosity cSt
1265	940	2.5	Lithium	>180	-30 +130	205

Globalsynth



High Temperature Grease

Meets or exceeds the following quality criteria:

DIN 51502: KP1.5N-30

ISO 12924: ISO-L-XC(F)DIB1.5



Wide operating temperature range



Good wear resistance and EP properties



Withstands impact loads



Good corrosion protection

Product number	Density kg/m ³ +20 °C	NLGI hardness	Thickener type	Drop point °C	Operating temperature range °C	Base oil viscosity cSt
1266	910	1.5	Lithium complex	>280	-30 +260	560



GLOBALSYNTH

Vehicle Lubricating Greases

Globalsynth **AP 3 Grease**













General Lubricating Grease for Vehicles

Meets or exceeds the following quality criteria:

DIN 51502: KP2K-30

ISO 12924: ISO-L-XC(F)CHB2



Multi-purpose grease

Good wear resistance and EP properties



Good rust protection



Good adhesion on metal surfaces

Product number	Density kg/m ³ +25 °C	NLGI hardness	Thickener type	Drop point °C	Operating temperature range °C	Base oil viscosity cSt
1267	900	2	Lithium	>200	-30 +180	110

Globalsynth Molygrease





Lithium-based special Grease containing Molybdenum Sulfide

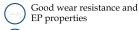
Meets or exceeds the following quality criteria:

DIN 51502: KPF2K-30

ISO 12924: ISO-L-XC(F)CHB2



Withstands impact loads



EP properties



Excellent rust protection



Withstands mechanical stress

Product number	Density kg/m³ +20 °C	NLGI hardness	Thickener type	Drop point °C	Operating temperature range °C	Base oil viscosity cSt
1268	910	2	Lithium	>180	-30 +120	110

Motorcycle Engine Oils

Globalsynth Pro Bike 10W-40



Synthetic Engine Oil

Meets or exceeds the following quality criteria: API SN, SM, SL, SJ JASO MA-2

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Good cold start properties



Long oil change intervals



Wet clutch compatible



New Generation oil meeting BS-VI emission norms

Product number	SAE	Density kg/m³ +15 °C	Viscosity mm²/s (0 40 °C		Viscosity index	Pour point °C	Pumpability limit temperature °C
1269	10W-40	861	91	13.8	125	-30	<-30

Globalsynth Pro Bike 5W-30



Synthetic Engine Oil

Meets or exceeds the following quality criteria: API SN, SM, SL, SJ JASO MA-2



Good cold start properties



Long oil change intervals



Wet clutch compatible



New Generation oil meeting BS-VI emission norms

Product number	SAE	Density kg/m³ +15 °C	Viscosity mm²/s (cSt) 40 °C 100 °C		Viscosity index	Pour point °C	Pumpability limit temperature °C
1270	5W-30	861	64	10.9	125	-30	<-30

Globalsynth Pro Bike 20W-40



Synthetic Engine Oil

Meets or exceeds the following quality criteria: API SN, SM, SL, SJ JASO MA-2



Good cold start properties



Long oil change intervals



Wet clutch compatible



Low evaporation Loss

Product number	SAE	Density kg/m³ +15 °C	Viscosity mm²/s (6 40 °C	,	Viscosity index	Pour point °C	Pumpability limit temperature °C
1271	20W-40	881	122	15	125	-30	<-30









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Our	Deal	ler
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