BESLUX GEARSYNT XP

SYNTHETIC GEAR OIL WITH PROTECTION AGAINST “MICROPITTING”

DESCRIPTION

BESLUX GEARSYNT XP is a gear oil formulated with a 100% synthetic base of PAO (polyalphaolefin) nature. It has been designed to get optimum lubricant life performance, as well as to protect equipment form wear and corrosion under the most extreme working conditions.

PAO base technology used in the formulation of **BESLUX GEARSYNT XP** provides the lubricant with excellent properties against oxidation and thermal degradation, it also has a natural viscosity index that allows it to work in a wide range of temperatures without sudden changes in viscometer properties. The good low temperature flow properties are also highlighted, due to the low freezing point of **BESLUX GEARSYNT XP**. The low coefficient of friction of this product together with its viscometer properties and its high viscosity index, translate into significant energy savings when compared to the results obtained with conventional mineral-based lubricants.

BESLUX GEARSYNT XP contains a selected and technically advanced additive, designed to reduce wear and protect against unwanted gear wear such as SCUFFING, and *MICROPITTING fatigue wear also called “GRAY FLECKING”*. Compared to conventional mineral-based lubricants, **BESLUX GEARSYNT XP** adds the properties of the base to those of the additive package, resulting in longer periods of lubricant change, as well as a better response against corrosion and protection of the mechanisms in severe environmental conditions such as saline environments. In addition, it shows excellent performance properties at high and low temperatures and compatibility with non-ferrous metals. The formulation of **BESLUX GEARSYNTH XP** with PAO makes it compatible with mineral-based gear oils or with synthetic products of the same nature, polybutene-based or ester-based.

Polyglycol base oils are not compatible with **BESLUX GEARSYNT XP**. Another advantage of the product is its compatibility with coatings, paints, sealing elements and gaskets made of materials such as NBR, FPM and Viton.

APPLICATIONS

The application of **BESLUX GEARSYNT XP** is for all types of industrial gear in closed casing where OEM’s require a lubricant type DIN 51517 p3 (CLP), it is not suitable for hypoid gears used in the automotive industry. The experience obtained through the rest of our BESLUX GEAR XP range permitted us this development. The **BESLUX GEARSYNT XP** passes the most exigent laboratory test even in the worst circumstances. Also, the tests done in the customer’s equipment certify the good formulation of the product. These tests were done in industrial areas like metal industries, cement, plastic industries, energy industries (windmills) and paper industries. The excellent results obtained make this product the best one for the gear application.
BESLUX GEARSYNT XP is mainly used in gear boxes, bearings, speed multipliers and speed reducers which must meet the U.S. STEEL 224, AGMA 9005-F16 requirements. Additionally, the **BESLUX GEARSYNT XP** meets the following requirements of main OEM´s: FLENDER, BROOK-HANSEN and POLYSIUS EQUIPMENT.

CAUTIONS

We have available the corresponding MSDS of the product according with the European normative.

PACKAGING

Different packaging is available, and it can be supplied further to the customer requirements.

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BESLUX GEARSYNT XP

SYNTHETIC GEAR OIL WITH PROTECTION AGAINST “MICROPITTING”

PHYSICAL-CHEMICAL CHARACTERISTICS

		68	150	220
Density at 20 ºC	ISO 12185	0,85 g/mL	0,85 g/mL	0,85 g/mL
Viscosity at 40º C	ASTM D-445	68 cSt	150 cSt	220 cSt
Viscosity at 100 ºC	ASTM D-445	11,0 cst	20,0 cSt	28,9 cSt
Viscosity index	ASTM D-2270	>145	>150	>160
Pour point	ASTM D-97	- 45 ºC	- 45 ºC	- 43 ºC
Flash point	ASTM D-92	230 ºC	240 ºC	235 ºC
Steel corrosion distilled water	ASTM D-665 A	Pass	Pass	Pass
Copper corrosion 3h/100ºC	ASTM D-130	1 a	1 a	1 a
Welding load	IP-239	>220 Kg	>220 Kg	>220 Kg
Wear scar diameter 1min./80 Kg.	IP-239	0,45 mm max.	0,43 mm max.	0,45 mm max.
Foams test: Sec. I , mL Sec. II , mL Sec. III, mL	ASTM D-892	 0/0 0/0 0/0	 0/0 0/0 0/0	 0/0 0/0 0/0
FZG Micropitting	FVA 54/II / FVA 575	>10	>10	>10
FZG Scuffing test	A/16·6/90	> 12	> 12	> 12
FZG Gear test (A/8.3/90)	DIN 51354-2	> 12	> 12	> 12
Deemulsification index, max (82ºC)	ASTM D-2711	40/37/3 (10’) ml/(minutes)	40/37/3 (10’) ml/(minutes)	40/37/3 (10’) ml/(minutes)
SRV TEST, 300N, 50ºC, 50Hz, 1mm, 2h, plate / ball (steel) • Coefficient of friction • ø Ball print	DIN 51834	 0,120 Max. 0,55 mm	 0,120 Max. 0,55 mm	 0,120 Max. 0,55 mm

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BESLUX GEARSYNT XP

SYNTHETIC GEAR OIL PROVIDED WITH MICROPITTING PROTECTION

PHYSICAL-CHEMICAL CHARACTERISTICS

		320	460	680
Density at 20 ºC	ISO 12185	0.85 g/mL	0.85 g/mL	0.86 g/mL
Viscosity at 40º C	ASTM D-445	320 cSt	460 cSt	680 cSt
Viscosity at 100 ºC	ASTM D-445	38.2 cSt	47.5 cSt	63 cSt
Viscosity index	ASTM D-2270	>160	>160	>160
Pour point	ASTM D-97	- 42 ºC	- 40 ºC	- 40 ºC
Flash point	ASTM D-92	240 ºC	250 ºC	250 ºC
Steel corrosion distilled water	ASTM D-665 A	Pass	Pass	Pass
Copper corrosion 3h/100ºC	ASTM D-130	1 a	1 a	1 a
Welding load	IP-239	>220 Kg	>220 Kg	>220 Kg
Wear scar diameter 1min/80 Kg.	IP-239	0.45 mm. max.	0.45 mm. max.	0.45 mm. max.
Foams test: Sec. I , mL Sec. II , mL Sec. III, mL	ASTM D-892	 0/0 0/0 0/0	 0/0 0/0 0/0	 0/0 0/0 0/0
FZG Micropitting	FVA 54/II / FVA 575	>10	>10	>10
FZG Scuffing test	A/16·6/90	> 12	> 12	> 12
FZG Gear test (A/8.3/90)	DIN 51354-2	> 12	> 12	> 12
Deemulsification index, máx (82ºC)	ASTM D-2711	40/37/3 (10') ml/(minuts)	40/37/3 (10') ml/(minuts)	40/37/3 (10') ml/(minuts)
SRV TEST, 300N, 50ºC, 50Hz, 1mm, 2h, plate / ball (steel) • Coefficient of friction • ø Ball print	DIN 51834	 0.120 Max. 0.55 mm	 0.120 Max. 0.55 mm	 0.120 Max. 0.55 mm

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