

Eurol Synmax PAO ISO-VG 320

Synthetic, polyalphaolefin based gearbox lubricant

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Product information

Eurol Synmax PAO ISO-VG 320 is a gearbox oil specifically developed for industrial applications such as the bath lubrication of heavily and/or shock-loaded gear and worm gear transmissions, and circulation lubrication.

Eurol Synmax PAO ISO-VG 320 is a so-called Mild EP oil with a high load-carrying capacity (EP) which excellently absorbs sudden peak loads.

Eurol Synmax PAO ISO-VG 320 possesses a low friction coefficient due to the synthetic base oils, resulting in lower energy consumption and lower operating temperatures.

Eurol Synmax PAO ISO-VG 320 is extremely thermally and oxidation stable, allowing it to be used for extended periods at high temperatures; evaporation losses are limited by the synthetic base oil. Due to the high viscosity index, a thicker lubricating film is formed at high operating temperatures than with mineral products of the same ISO-VG class.

Eurol Synmax PAO ISO-VG 320 protects metal parts (including non-ferrous metals) from rust and corrosion, even if water has entered the system. The water is quickly separated by this oil. Due to its good compatibility with common rubber types, the deterioration or swelling of sealing materials is prevented.

Performance level

- AGMA 9005/E02
- AISE (US Steel) 224
- ANSI/AGMA 9005-F16: 2016 AS
- Cincinnati Machine P-74
- David Brown S1.53.106
- DIN 51517/3 (CLP)
- ISO 12925-1: 2018-01 CKD

Physical properties

Characteristic	Value/Result	ASTM Standard
Color	Yellow	
Density at 20°C	0.85 kg/l	ASTM D 4052
Viscosity, kinematic at 40 °C	313.0 cSt	ASTM D 445
Viscosity, kinematic at 100 °C	40.0 cSt	ASTM D 445
Viscosity index	180	ASTM D 2270
Flash point	229 °C	ASTM D 92
Pour point	-51 °C	ASTM D 97

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