

## LUBRICANTS FOR INDUSTRIAL USE

# CEPSA ENGRANAJES SMP 320

### DESCRIPTION

Synthetic-based lubricant with latest generation Extreme Pressure additives. Developed for use with all types of steel industrial gears in sealed transmission boxes in several industrial applications.

#### PRODUCT APPLICATIONS

- Especially recommended for use in the gearboxes of wind turbines of all sizes and capacities, on-shore or off-shore and under extreme temperatures and moisture conditions.
- Recommended for all types of industrial steel gearing in sealed gearboxes, requiring a long oil life with limited maintenance or not accessible, operating under severe service conditions and subject to high shock loads.
- Its excellent extreme pressure properties make it essential for certain, heavily loaded reducers at low speeds, where micropitting is a real risk.

#### PRODUCT PERFORMANCE

- High viscosity index and excellent performance in low temperatures, conferring the product a wide temperature range of operation.
- High resistance to the formation of foams and water emulsions.
- Increases gearing useful life by reducing the presence of oxidized compounds, wear particles and deposits in general.
- Excellent lubricant properties. Reduces the coefficient of friction under thin film lubrication conditions.
- High anti-corrosive and anti-rust powers in the presence of moisture.
- Limits friction losses, smooth, uniform and silent gear operation.
- Excellent thermal and oxidation stability. Prevents sludge formation at high temperatures.

### SPECIFICATIONS

- DIN 51517 Part 3 CLP
- AGMA 9005-F16 AntiScuff
- SIEMENS FLENDER Rev.16
- FAG
- ISO 12925-1 Type CKS/CKT
- DAVID BROWN S1.53.106
- MOVENTAS
- WINERGY
- AIST 22
- Hansen Industrial Transmissions
- FIVES CINCINNATI P-59
- BOSCH-REXROTH

### TYPICAL CHARACTERISTICS

CHARACTERISTIC	UNITS	METHOD	CEPSA ENGRANAJES SMP 320
<b>ISO GRADE</b>			<b>320</b>
Density at 15 °C	kg/l	ASTM D-4052	0.8912
Flash Point, COC	°C	ASTM D-92	215
Pour Point	°C	ASTM D-5950	-39
Viscosity at 40 °C	cSt	ASTM D-445	320
Viscosity at 100°C	cSt	ASTM D-445	37
Viscosity Index	-	ASTM D-2270	165
Demulsibility at 82°C to 3 ml	min	ASTM D-1401	25
Foam Test Tendency, Seq. II	ml/ml	ASTM D-892	10(0)
FZG Scuffing (A/8.3/90), Fail Stage	-	DIN 51354-2	>14
FZG Micropitting test, Fail Stage	-	FVA 54	>10
4-Ball EP Test: Scar Diameter of 400N 1h	mm	ASTM D-4172B	0.37

### HEALTH & SAFETY AND ENVIRONMENT

Health, safety and environmental information is provided for this product in the Materials Safety Data Sheet. This gives details of potential hazards, precautions and First Aid measures together with environmental effects and disposal of used products.