

## LUBRICANTS FOR INDUSTRIAL USE

# CEPSA AEROGEAR SYNT 320

### DESCRIPTION

Fully synthetic lubricating oil (PAO/Ester based), with sulphur-phosphorus type extreme pressure additives, for all kinds of industrial steel gears in a closed sump, and especially in wind turbines.

#### PRODUCT APPLICATIONS

- Recommended for the gearboxes of wind turbines of all sizes and capacities, whether on-shore or off-shore, and for use under extreme temperature and humidity conditions.
- Recommended for all types of steel industrial gears in a closed sump, operating under severe service conditions and subjected to high shock loads, including those that work at very high speed.
- Excellent extreme pressure properties which make it indispensable for certain heavily loaded gearboxes and at low speeds where there is a risk of MICROPITTING, as in the case of the multipliers for wind turbines.

#### PRODUCT PERFORMANCE

- Excellent lubricating power. Reduce the coefficient of friction under thin film lubricating conditions.
- Great thermal and oxidation stability. Avoiding sludge formation at high temperatures.
- High anti-corrosive and anti-rust power in the presence of humidity.
- High resistance to the formation of foam and water emulsions.
- Excellent protection against wear by micropitting.
- Limits power loss from friction and makes gears function smoothly, uniformly and silently.
- Increase the useful life of the gears and bearings.
- Due to its synthetic nature, it allows oil change periods to be notably increased, as a result of its great oxidation stability.

### SPECIFICATIONS

- DIN 51517 Part 3 CLP
- AGMA 9005-F16 AntiScuff
- FLENDER Gear Units Rev.16
- GAMESA
- FAG
- ISO 12925-1 Type CKC/CKD/CKS/CKT
- DAVID BROWN S1.53.106
- ACCIONA ENERGY
- WINERGY
- SKF
- AIST 224
- ZF Wind Power
- FIVES CINCINNATI P-59
- BOSCH-REXROTH
- IBERDROLA – Oleo Project
- Hansen Industrial Transmissions

### TYPICAL CHARACTERISTICS

CHARACTERISTIC	UNITS	METHOD	CEPSA AEROGEAR SYNT 320
<b>ISO GRADE</b>			<b>320</b>
Density at 15°C	kg/l	ASTM D-4052	0.862
Flash Point, COC	°C	ASTM D-92	246
Pour Point	°C	ASTM D-5950	-42
Viscosity at 40°C	cSt	ASTM D-445	320
Viscosity at 100°C	cSt	ASTM D-445	35
Viscosity Index	-	ASTM D-2270	155
Demulsibility (82°C to 3ml)	minutes	ASTM D-1401	15
Foaming Test, Seq. I	ml/ml	ASTM D-892	10(0)
FZG Scuffing (A/8.3/90), Failure stage	-	DIN 51354-2	>14
FZG Micropitting, Failure stage	-	FVA 54/7	>10
Four-Ball EP Method: Minimum welding load	kg	ASTM D-2783	250

### 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.