

## LUBRICANTS FOR INDUSTRIAL USE

## CEPSA ENGRANAJES HPX

### DESCRIPTION

High-performance synthetic oil formulated with synthetic bases (PAO) and extreme pressure additives that provide excellent properties for multiple applications under severe working conditions, operating under heavy loads and at low speeds.

#### PRODUCT APPLICATIONS

- Especially recommended for all types of steel industrial gears in closed crankcases, operating under severe service conditions and subject to high shock loads and constant or intermittent heavy stress, including those working at very high loading and low speed.
- They can be used in bath, splash or oil mist lubrication systems, operating under a wide range of temperatures.
- Recommended for use in components working at high temperatures, where a conventional oil can quickly become oxidized.
- Also suitable in those applications where there is risk of micro pitting.

#### PRODUCT PERFORMANCE

- Excellent thermal and chemical stability. Reduces the formation of lacquers, deposits and varnishes.
- High viscosity index and low pour point.
- Compatibility with elastomers and seals.
- Excellent anti-wear properties. Increases the service life of gears.
- Perfect miscibility with mineral oils.
- High resistance to degradation. Reduces oil consumption, increasing the periods between oil changes.
- High resistance to the formation of foams and water emulsions.

### SPECIFICATIONS

- DIN 51517 Part 3 HLP
- AIST 224
- ISO 12925-1 Type CKC / CKD / CKS
- DAVID BROWN S1.53.106
- AGMA 9005-F16 AntiScuff
- FIVES CINCINNATI P-Specs

### TYPICAL CHARACTERISTICS

CHARACTERISTIC	UNITS	METHOD	CEPSA ENGRANAJES HPX			
			150	220	320	460
ISO GRADE						
Density at 15°C	Kg/l	ASTM D-4052	0.849	0.857	0.858	0.853
Flash Point, COC	°C	ASTM D-92	245	245	250	250
Pour Point	°C	ASTM D-5950	-51	-48	-45	-42
Viscosity at 40°C	cSt	ASTM D-445	144	212	309	447
Viscosity at 100°C	cSt	ASTM D-445	20.8	25.3	34.3	46.1
Viscosity Index	-	ASTM D-2270	169	151	156	160
Timken OK Load (lb)	lb	LL-2782	65	70	70	70
FZG Test, load failure stage	-	DIN 51354-2	>12	>12	>12	>12
Four-ball test (D scar, max) (Load, min)	mm	ASTM D-2266	0.3	0.3	0.3	0.3
	kg	ASTM D-2783	250	250	250	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.