

LUBRICANTS FOR INDUSTRIAL USE

CEPSA ENGRANAJES HP

DESCRIPTION

High-performance mineral lubricating oil, with extreme pressure sulfur-phosphorus additives, developed for all types of steel industrial gears in closed crankcases.

PRODUCT APPLICATIONS

- Highly recommended for all types of steel industrial gears in closed crankcases, operating under severe service conditions and subject to high shock loads or constant or intermittent heavy stress, including those working at very high loading and speed.
- They can be used in bath, splash or oil mist lubrication systems.
- Their excellent extreme pressure properties make them essential for certain gearboxes in industries such as cement, steel and mining; for heavily loaded and low speed sliding and rolling bearings; and for flexible couplings, chains, etc.

PRODUCT PERFORMANCE

- Limits power loss due to friction. Smooth, uniform and silent operation of gears under limited lubrication conditions.
- Excellent thermal stability and resistance to oxidation.
- Excellent anti-corrosion and anti-rust properties in the presence of humidity.
- High resistance to the formation of foams and water emulsions.
- Facilitates controlled rolling, preventing the scuffing of gear teeth.
- Superb fluidity at low temperatures.
- Increases the life of gears by minimizing the presence of oxidation compounds, wear particles and general deposits.
- Significantly increases oil change periods, due to its high oxidation stability and easy water separation.

SPECIFICATIONS

- DIN 51517 Parte 3 CLP
- AIST 224
- IBERCISA (ISO 220 y 320)
- ISO 12925-1 Tipo CKC / CKD
- DAVID BROWN S1.53.101 Type E
- AGMA 9005-F16 AntiScuff
- FIVES CINCINNATI P-Specs

TYPICAL CHARACTERISTICS

CHARACTERISTICS	UNITS	METHOD	CEPSA ENGRANAJES HP						
ISO GRADE			68	100	150	220	320	460	680
Density at 15°C	Kg/l	ASTM D-4052	0,885	0,891	0,896	0,899	0,904	0,907	0,908
Flash Point, COC	°C	ASTM D-92	>210	>215	>215	>220	>220	>225	>230
Pour Point	°C	ASTM D-5950	-27	-21	-21	-21	-12	-12	-12
Viscosity at 40°C	cSt	ASTM D-445	68	102	149	217	318	458	676
Viscosity at 100°C	cSt	ASTM D-445	8,6	11,4	14,7	18,8	24,0	30,7	40,4
Viscosity Index	-	ASTM D-2270	97	98	97	97	96	97	99
Timken OK Load	lb	ASTM D-2782	60	60	60	60	60	60	60
FZG Test, load failure stage	-	DIN 51354-2	>12	>12	>12	>12	>12	>12	>12
Four-ball (D scar, max)	mm	ASTM D-2266	0,35	0,35	0,35	0,35	0,35	0,35	0,35

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.