Product Data

Alphasyn OG

Synthetic Gear Oil

Description

Castrol Alphasyn™ OG 6800 ia a heavy-duty, specially high viscosity lubricant primarily intended for use in heavily loaded, low-speed gears and bearings where boundary lubrication conditions may prevail. Formulated from wax-free synthetic base stocks which have exceptional thermal oxidation properties and excellent low temperature fluidity. The combination of a naturally high viscosity index and a unique additive system enables OG 6800 to provide outstanding performance under severe high and low temperature operating conditions.

The base stocks have inherently low traction properties which result in low fluid friction in the load zone of non-conforming surfaces such as gears. Reduced fluid friction produces lower oil operating temperatures and improved gear efficiency.

Alphasyn OG 6800 does not contain solvents.

Application

Alphasyn OG 6800 is especially designed for use in both newer and retrofitted enclosed system designs and is recommended for all kinds of enclosed gears as well as plain and roller bearing elements.

OG 6800 also provide excellent protection to gears and bearings under Elastohydrodynamic and Boundary lubrication conditions.

Advantages

- Extended gear life resulting from outstanding loadcarrying, antiwear and tackiness properties derived from proprietary thick film lubrication.
- Improved gear efficiency and lower operating temperatures arising from low traction properties.
- Reduced lubricant consumption and disposal costs Improved safety through absence of solvent.

Typical Characteristics

Name	Method	Units	OG 6800
Kinematic Viscosity @ 40°C / 104°F	ISO 3104 / ASTM D445	mm^2/s	7200
Kinematic Viscosity @ 100°C / 212°F	ISO 3104 / ASTM D445	mm^2/s	345
Viscosity Index	ISO 2909 / ASTM D2270	-	185
Density @ 15°C / 59°F	ISO 12185 / ASTM D4052	kg/m^3	900
Pour Point	ISO 3016 / ASTM D97	°C/°F	-18/5
Flash Point - open cup method	ISO 2592 / ASTM D92		219/427
Rust test - distilled water (24 hrs)	ISO 7120 / ASTM D665A	-	Pass
Copper corrosion (3 hrs@100°C/212°F)	ISO 2160 / ASTM D130	Rating	1b
Timken OK Load test	ASTM D2782	kg / lb	32/70
Four Ball Weld Load test - Weld Point	ISO 11008 / ASTM D2596	kgf	220
Four Ball Wear test - Wear Scar Diameter (40 kgf / 75°C / 1200 rpm / 1 hr)	ASTM D2266	mm	0.36
FZG Gear Scuffing test - A/8.3/90	ISO 14635-1	Failure Load Stage	>12

Subject to usual manufacturing tolerances

Castrol Industrial, Technology Centre , Whitchurch Hill , Pangbourne , Reading , RG8 7QR , United Kingdom

http://msdspds.castrol.com