



Alphasyn EP 1500

Synthetic Gear Oil

Description

Castrol Alphasyn™ EP 1500 is a high quality synthetic lubricant based on poly-alphaolefin (PAO) fluids and sulphur/phosphorus Extreme Pressure (EP) additive technology providing good thermal stability and high load carrying capacity.

Application

Alphasyn EP 1500 has been designed for use in all types of enclosed gears, including heavy duty systems, requiring extreme pressure performance. EP 1500 is particularly suited for dragline swing boxes. The low friction coefficient combined with high viscosity index reduces energy losses due to drag, to provide lower gear box operating temperatures, whilst maintaining good viscosity for film strength.

Alphasyn EP 1500 provides superior performance in heavily loaded or shock-loaded gears and bearing applications where severe duty conditions necessitate extreme pressure performance as a service requirement.

Advantages

- Extreme pressure properties and load carrying characteristics for reduced wear even when gears are heavily loaded or subjected to shock loads
- Good oxidation stability ensures longer service life
- Compatible with metals used in gears boxes, such as steel and bronze
- Extremely wide operational temperature range
- Good compatibility with mineral lubricants and the seals and paints used in mineral oil systems
- Reduced operating temperatures due to low friction coefficient which promotes reduced energy consumption

Typical Characteristics

Name	Method	Units	EP 1500
Density @ 15°C / 59°F	ISO 12185 / ASTM D4052	kg/m ³	872
Appearance	Visual	-	Clear & Bright
Kinematic Viscosity @ 40°C / 104°F	ISO 3104 / ASTM D445	mm ² /s	1500
Viscosity Index	ISO 2909 / ASTM D2270	-	160
Pour Point	ISO 3016 / ASTM D97	°C/°F	-30/-22
Flash Point - closed cup method	ISO 2719 / ASTM D93	°C/°F	240/464
Foam Sequence I - tendency / stability	ISO 6247 / ASTM D892	ml / ml	50 / 0
Rust test - synthetic seawater (24 hrs)	ISO 7120 / ASTM D665B	Rating	Pass
FZG Gear Scuffing test - A/8.3/90	ISO 14635-1	Failure Load Stage	> 14
Timken OK Load test	ASTM D2782	kg / lb	>41 / >90

Subject to usual manufacturing tolerances.

Alphasyn EP 1500

28 Sep 2016

Castrol, the Castrol logo and related marks are trademarks of Castrol Limited, used under licence.

This data sheet and the information it contains is believed to be accurate as of the date of printing. However, no warranty or representation, express or implied, is made as to its accuracy or completeness. Data provided is based on standard tests under laboratory conditions and is given as a guide only. Users are advised to ensure that they refer to the latest version of this data sheet. It is the responsibility of the user to evaluate and use products safely, to assess suitability for the intended application and to comply with all applicable laws and regulations. Material Safety Data Sheets are available for all our products and should be consulted for appropriate information regarding storage, safe handling, and disposal of the product. No responsibility is taken by either BP plc or its subsidiaries for any damage or injury resulting from abnormal use of the material, from any failure to adhere to recommendations, or from hazards inherent in the nature of the material. All products, services and information supplied are provided under our standard conditions of sale. You should consult our local representative if you require any further information.

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

<http://msdspds.castrol.com>