



Alphasyn T

Synthetic Gear Oil

Description

The Castrol Alphasyn™ T gear oil range of synthetic lubricants is based on polyalphaolefin (PAO) fluids and sulphur/phosphorus anti-wear additive technology providing outstanding thermal stability and good load carrying capacity.

Application

The Alphasyn T range has been formulated for use in most types of light to medium duty enclosed gear systems but should not be used for heavy or shock loaded systems. Alphasyn T is also suitable for bearings and circulatory systems operating at high temperatures. Alphasyn T is suitable for various applications where a lubricating oil is used under high temperatures, e.g. from hydraulic systems through to large, slow moving gears. All products in the Alphasyn T range have very low pour points and excellent viscosity and temperature characteristics, allowing their use in both low and high temperature applications. The Alphasyn T range is fully compatible with nitrile, silicone and fluropolymer seal materials.

Alphasyn T is classified as follows:

DIN Classification is CL

The Alphasyn T range meets the requirements of:

- DIN 51517 Part 2
- David Brown Type A

Advantages

- Good thermal and oxidative stability provides reliable operation and extended operating life when compared to mineral oil based products.
- Inherently high viscosity index (VI) makes the product suitable for operations operating over a wide temperature range.
- Good anti-wear and load carrying abilities minimises gear wear and prolongs gear tooth life.
- Reduced down time through water separation and demulsification characteristics resulting in prolonged lubricant life and increased equipment reliability.
- PAO based lubricant that provides good compatibility with seals, paints and mineral oil based lubricants.

Typical Characteristics

Name	Method	Unit	T 150	T 220	T 320	T 460
Density @ 15°C / 59°F	ISO 12185 / ASTM D4052	kg/m ³	870	870	870	870
Kinematic Viscosity @ 40°C / 104°F	ISO 3104 / ASTM D 445	mm ² /s	150	220	320	460
Kinematic Viscosity @ 100°C / 212°F	ISO 3104 / ASTM D 445	mm ² /s	17.8	23.9	31.7	41.8
Viscosity Index	ISO 2909 / ASTM D2270	-	131	135	138	141
Pour Point	ISO 3016 / ASTM D97	°C/°F	-42/-44	-42/-44	-30/-22	-30/-22
Flash Point - open cup method	ISO 2592 / ASTM D92	°C/°F	271/ 520	277/531	282/ 540	285/545
Foam Sequence I - tendency / stability	ISO 6247 / ASTM D892	ml/ml	10/0	10/0	10/0	20/0
Rust test - synthetic seawater (24 hrs)	ISO 7120 / ASTM D665B	-	Pass	Pass	Pass	Pass
FZG Gear Scuffing test - A/8.3/90	ISO 14635-1	Failure Load Stage	12	12	12	12

Subject to usual manufacturing tolerances.

Alphasyn T
07 Jun 2017
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>