



Product Data

Castrol Alphasyn® T Range

Synthetic Gear oil

DESCRIPTION

The Castrol Alphasyn T gear oil range of synthetic lubricants are based on polyalpha-olefin (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

Alphasyn T grades meet the requirements of:

DIN 51517 Parts 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 minimizes 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 lubricant.

TYPICAL CHARACTERISTICS

Test	Method	Units	150	220	320	460
Density @ 15°C	ISO 12185 / ASTM D4052	g/ml	0.87	0.87	0.87	0.87
K.V. @ 40°C	ISO 3104 / ASTM D445	mm ² /s	150	220	320	460
K.V. @ 100°C	ISO 3104 / ASTM D445	mm ² /s	17.8	23.9	31.7	41.8
Viscosity Index	ISO 2909 / ASTM 2270	-	131	135	138	141
Pour Point	ISO 3016 / ASTM D97	°C °F	-42 -44	-42 -44	-30 -22	-30 -22
Flash Point, COC	ISO 2592 / ASTM D92	°C/°F	271/520	277/531	282/540	285/545
Foam Seq I	ISO 6247 / ASTM D892	mls/mls	10/0	10/0	10/0	20/0

Rust Test (24 hrs synthetic sea water)	ISO / 7210 / ASTM D665B	-	Pass	Pass	Pass	Pass
FZG fail stage (A8.3/90)	ISO 14635-1 / DIN 51354	-	12	12	12	12

Subject to Usual Manufacturing Tolerances.

Castrol Alphasyn T
29/11/2005, Global Version Number 1
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Castrol Industrial North America Inc. 150 West Warrenville Road, 605 3E Naperville, IL 60563
Tel: (877) 641 1600 Fax: (877) 648 9801

www.castrol.com/industrial