

Technical Data Sheet

Texol Gearsyn™ SE Series

Synthetic ester gear oils

Product Description

Texol Gearsyn™ SE synthetic base fluid in these gear oils is a ester which can be used in a temperature range from -25 °C to +180 °C. It is compatible with sealing mineral oils. Blended into this is the latest development in the field of surface improving additive technology designated.

- They are manufactured from high quality ester base oils
- Texol Gearsyn™ SE synthetic gear oils are available in the viscosity grades 08 to 680.

Applications and Uses

Texol Gearsyn™ SE gear oils may be used in a temperature range from -25 °C to +180 °C. They are most valuable during the running-in process as well as in applications where the surfaces have already been damaged in the micro-range.

Typical applications are spur, helical, herringbone, bevel and planetary gears. They are also used in geared couplings, rolling and sliding bearings as well as in gear drive circulating systems.

Advantages

- Considerable decrease in maintenance costs by prolonged service life of lubricant and machine parts
- The excellent friction reducing characteristics are demonstrated through the results of the FZG test (damage load stage > 16)
- Micropitting load capability: high
- Regenerating of damaged friction surfaces on a micro-scale range
- Reduced friction and consequently reduced wear
- Reduced operating temperature
- Lower noise level
- Longer life of gearings and bearings
- Running-in oils or additives may no longer be required
- Preventing and stopping of running-in pittings
- Due to synthetic base fluid excellent oxidation stability ensures the formation of a pressure-stable lube film over a wide temperature range thus providing excellent anti-wear protection

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Typical Properties

Property (Unit)	SE 08	SE 15	SE 22	SE 32	SE 46	SE 68	Method
Density at +15 °C	865	870	875	880	890	900	DIN 51757
Viscosity @40°C, cSt	08	15	22	32	46	68	DIN 51550
Viscosity @100°C, cSt	2.2	3.9	5.5	8.1	13.4	17	DIN 51550
ISO Viscosity Grade	08	15	22	32	46	68	DIN 51519
Viscosity Index	120	122	135	140	145	148	DIN ISO 2909
Flash Point, °C	245	245	247	250	250	255	DIN ISO 2592
Pour Point, °C	-40	-37	-33	-30	-27	-27	DIN ISO 3016
Four ball weld load, N	1500	1500	1500	1600	1600	1600	DIN 51350-02
Four ball wear test, mm				0.27			DIN 51350-03
FZG test (A/8.3/90)				>16			DIN 51354

Property (Unit)	SE 100	SE 150	SE 220	SE 320	SE 460	SE 680	Method
Density at +15 °C	915	920	925	930	940	960	DIN 51757
Viscosity @40°C, cSt	100	150	220	320	460	680	DIN 51550
Viscosity @100°C, cSt	14.2	18.9	24.8	33.4	44.7	60	DIN 51550
ISO Viscosity Grade	100	150	220	320	460	680	DIN 51519
Viscosity Index	155	158	160	164	168	175	DIN ISO 2909
Flash Point, °C	257	259	264	265	266	267	DIN ISO 2592
Pour Point, °C	-25	-25	-23	-22	-20	-18	DIN ISO 3016
Four ball weld load, N	1600	1600	1700	1800	1800	1800	DIN 51350-02
Four ball wear test, mm				0.28			DIN 51350-03
FZG test (A/8.3/90)				>16			DIN 51354

Notes for Use

- Texol Gearsyn™ SE synthetic gear oils are compatible with mineral oils and polyalphaolefins. Traces of previous oil in the gear case after draining will not pose any problems. However, the beneficial effects of the additives are reduced, when Texol Gearsyn™ SE oils are mixed with other gear oils.
- Texol Gearsyn™ SE oils are not compatible with polyglycols. After draining a polyglycol fill, the gear case must be flushed well with a mineral oil or flushing oil.