

Technical Data Sheet

Texol Gearsyn™ FG Series

Synthetic food machinery gear oils

Product Description

Texol Gearsyn™ FG synthetic food machinery gear oils have been developed for service in worm gear drives and for all other types of enclosed gear drives, where heavy load conditions prevail.

They were formulated to meet the stringent requirements for USDA-H1 lubricants and are designed for use in the food and beverage industry where incidental contact with food is possible.

- Texol Gearsyn™ FG gear oils are available in the typical ISO viscosity grades for worm gear drives, ISO VG 10 to 1000.
- Formulated to meet the requirements of the USDA-H1 approval, they are suited for applications where incidental contact with food is possible.
- Texol Gearsyn™ FG gear oils have a polyglycol basis and offer exceptional anti-wear and load carrying capacity.

Applications and Uses

Texol Gearsyn™ FG synthetic food machinery gear oils are used in worm, spur, helical, herringbone, straight or bevel gears.

Texol Gearsyn™ FG may be applied by oil can, oil cup reservoir, splash, spray, mist or by automatic dispensing equipment, central and circulation systems.

Advantages

- GEARSYN™ technology
- Odorless and tasteless
- High load carrying capacity
- Excellent wear, oxidation and corrosion protection
- Neutral to nonferrous metals
- Excellent viscosity/temperature behavior

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Typical Properties

Property (Unit)	FG 10	FG 15	FG 22	FG 32	FG 46	FG 68	Method
Density at +15 °C	1000	1008	1012	1024	1028	1040	DIN 51757
Viscosity @40°C, cSt	10	15	22	32	46	68	DIN 51550
Viscosity @100°C, cSt	2.75	3.45	4.2	5.4	6.9	8.7	DIN 51550
ISO Viscosity Grade	10	15	22	32	46	68	DIN 51519
Viscosity Index	206	211	216	231	241	261	DIN ISO 2909
Flash Point, °C	250	250	250	260	260	270	DIN ISO 2592
Pour Point, °C	-65	-62	-62	-60	-58	-50	DIN ISO 3016
Four ball weld load, N	1400	1400	1400	1500	1500	1500	DIN 51350-02
Four ball wear test, mm				0.28			DIN 51350-03
FZG test (A/8.3/90)				>12			DIN 51354

Property (Unit)	FG 100	FG 150	FG 220	FG 320	FG 460	FG 680	FG 1000	Method
Density at +15 °C	1050	1052	1055	1068	1075	1075	1075	DIN 51757
Viscosity @40°C, cSt	100	150	220	320	460	680	1000	DIN 51550
Viscosity @100°C, cSt	21	27	35	51	73	114	155	DIN 51550
ISO Viscosity Grade	100	150	220	320	460	680	1000	DIN 51519
Viscosity Index	206	211	216	231	241	261	280	DIN ISO 2909
Flash Point, °C	280	280	290	290	290	290	300	DIN ISO 2592
Pour Point, °C	-42	-36	-33	-30	-30	-27	-25	DIN ISO 3016
Four ball weld load, N	1600	1600	1700	1800	1800	1800	1900	DIN 51350-02
Four ball wear test, mm				0.28				DIN 51350-03
FZG test (A/8.3/90)				>14				DIN 51354

Notes for Use

- Texol Gearsyn™ FG synthetic gear oils are not compatible with mineral oils. Therefore a thorough cleaning of gearboxes, bearings and oil reservoirs are recommended.
- Condensation water may be absorbed without the danger of corrosion or a change in viscosity.
- Texol Gearsyn™ FG synthetic gear oils are compatible with seals, e.g. NBR, FPM.
- They are compatible with nearly all conventional one-component and two-component lacquers.
- Quality standard: Texol Gearsyn™ FG synthetic gear oils are CLP-PG oils and exceed the minimum requirements according to DIN 51517 for CLP gear oils