

Technical Data Sheet

Texol Gearsyn™ FG-S Series

Advanced performance extreme pressure synthetic food machinery gear lubricants

Product Description

Texol Gearsyn™ FG-S series are range of Premium EP synthetic polyalphaolefins food machinery gear lubricants provide very high wear protection and exceptional load-carrying capacity as well as protection against shock loads and micro-pitting. Texol Gearsyn™ FG-S synthetic gear lubricants are designed to protect a wide variety of heavy-duty gear systems and bearings.

Customer benefits

- Protection against gear wear, micro-pitting and bearing wear, increasing system life
- Reliable thermal and oxidation stability extends oil life, improving uptime and productivity
- Reduced deposit and sludge formation ensure cleaner systems, reducing service downtime
- Effective corrosion prevention increases component reliability, cutting unscheduled maintenance time
- Rapid water separation optimises lubrication performance and rust prevention, reducing costs
- Good foam suppression, even when contaminated with water, ensures trouble-free operation
- Wide range of industrial, marine and mobile applications reduces inventories, saving time and Money
- 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.

Applications and Uses

- GEARSYN™ technology
- InS Service H1 registered
- Fully synthetic
- 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)	FGS22	FGS32	FGS46	FGS68	Method
Density at +15 °C	870	874	880	884	DIN 51757
Viscosity @40°C, cSt	22.65	30.67	43.6	67.1	DIN 51550
Viscosity @100°C, cSt	4.29	5.05	7.43	8.62	DIN 51550
ISO Viscosity Grade	22	32	46	68	DIN 51519
Viscosity Index	120	122	122	123	DIN ISO 2909
Flash Point, °C	220	222	224	225	DIN ISO 2592
Pour Point, °C	-47	-46	-50	-52	DIN ISO 3016
Four ball weld load, N	1500	1500	1500	1500	DIN 51350-02
Four ball wear test, mm	0.29				DIN 51350-03
FZG test (A/8.3/90)	>14				DIN 51354

Property (Unit)	FGS100	FGS150	FGS220	FGS320	FGS460	FGS680	Method
Density at +15 °C	880	885	890	891	895	896	DIN 51757
Viscosity @40°C, cSt	100	154	215	315	455	631	DIN 51550
Viscosity @100°C, cSt	14.3	17.6	21.9	31.8	42.6	50	DIN 51550
ISO Viscosity Grade	100	150	220	320	460	680	DIN 51519
Viscosity Index	123	125	126	130	135	140	DIN ISO 2909
Flash Point, °C	225	225	230	232	250	250	DIN ISO 2592
Pour Point, °C	-55	-55	-48	-40	-30	-22	DIN ISO 3016
Four ball weld load, N	1600	1600	1700	1800	1800	1800	DIN 51350-02
Four ball wear test, mm	0.29						DIN 51350-03
FZG test (A/8.3/90)	>14						DIN 51354

Notes for Use

- Condensation water may be absorbed without the danger of corrosion or a change in viscosity.
- Texol Gearsyn™ FG-S lubricants 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-S lubricants are CLP oils and exceed the minimum requirements according to DIN 51517 for CLP gear oils