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PRODUCT DATA SHEET

INDUSTRIAL GEAR OIL 680

Product Code 70180

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DESCRIPTION

XL Industrial Gear Oils are modern, solid free multi-use lubricants to suit the widest range of industrial gear applications. Based on the latest clean technology EP gear additives, XL gear oils provide minimum gear wear, maximum load carrying capacity surpassing FZG load stage 12, excellent corrosion protection and outstanding resistance to high-temperature sludging.

APPLICATION

Recommended for use in all types of industrial enclosed gear boxes, also as bearing oils for highly loaded plain bearings. The oils are compatible with copper and its alloys and therefore suitable for gearboxes and drives incorporating bronze components such as worm wheels. Also suitable for all types of rolling and sliding bearings, gear tooth couplings and articulations, highly loaded sliding surfaces and circulation systems.

RECOMMENDATIONS

Miscible and compatible with mineral oil based unleaded gear oils. Maximum performance is only guaranteed if not mixed with other products. Compatible with ferrous and non-ferrous metals and also with paints and conventional sealing materials. Mechanical cleaning with all known filtering installations and separators possible. For best results preclean all compartments by flushing with XL Gear oil. Use where overall operating costs need to be minimised.

SPECIFICATION

Meets the requirements of:

- DIN 51517 Part III
- US Steel 224

ADVANTAGES

- Reduced metal to metal friction extends lifetime of machine components and wear parts.
- Lowers maintenance and labor costs by minimizing wear.
- Increased load capacity, reduced noise and operating temperatures.
- Lower cost for lubrications and waste oil disposal due to extensions of service life and lubrication intervals.
- Full load operations within a short space of time, virtually eliminating the running in period.
- Lower temperatures of lubricants and components plus improvement in operation efficiency.
- Fill for life lubrication in some applications.

CHARACTERISTICS*

TEST	METHOD	TYPICAL VALUE
Appearance	Visual	Clear & Bright
Density 15°C, g/cm ³	ASTM D7042	0.8950
Kinematic Viscosity 40°C, cSt	ASTM D7042	680.0
Viscosity Index	ASTM D2270	120
Flash Point, °C (COC)	ASTM D92	>230
Pour Point, °C	ASTM D97	-6
Copper Corrosion (3hrs 100°C)	ASTM D130	1a
Rust Test Procedure A (24hrs Distilled Water)	ASTM D665	Pass
Procedure B (24hrs Syn Sea Water)		Pass
Seal Test 7 days 100°C using SRE-NBR 28	DIN 51517 Part III	Clear Pass
Volume Change %		Clear Pass
Shore A Hardness Change %		Clear Pass
Tensile Strength % Rupture Elongation %		Clear Pass
FTIR	ASTM E2412	Match

*Product data shows typical values and do not represent a specification