

**IGO F****Premium Industrial Gearboxes Oils
with Micropitting Resistance**

Product Overview

The IGO F gear oils are premium, lead-free, industrial gearboxes oils designed to meet the high demand of industrial gears, where extreme load and shock load protection is required.

IGO F gear oils have been engineered to meet the performance requirements of Siemens MD (FLENDER) Rev 15. They deliver the exceptional micropitting resistance required by this specification for helical, bevel and planetary gears. Additionally, IGO F gear oils ensure the outstanding bearing protection that is critical for efficient and smooth running of gearboxes over extended periods.

Benefits

- Micropitting resistance
- Bearing protection
- Thermal and oxidative stability for prolonged gear and bearing life
- Elastomer and liquid sealant compatibility
- Internal paint durability and compatibility
- Dynamic foam control
- Low sludge formation and reduced filter plugging

Applications

- Heavily loaded gears in casing
- Industrial gearing for conveyors, agitators, dryers, extruders and other heavy-duty applications
- Non-gear applications include shaft couplings, crews and heavily loaded plain and rolling contact bearings operating at low speeds

Health and Safety

This lubricant is unlikely to produce any significant health or safety hazard when used in the application it has been designed for and according to the recommendations provided in the Material Safety Data Sheet. MSDS are available upon request through your sales advisor.

When disposing of used oil, please observe all current regulations and protect the environment.

IGO F SERIES

Meets or exceeds the following industry Specifications

Grade	68	100	150	220	320	460	680
US STEEL 224 / AIST 224	✓	✓	✓	✓	✓	✓	✓
AGMA 9005-F16 AS	✓	✓	✓	✓	✓	✓	✓
Five Cincinnati EP Gear Oils	✓	✓	✓	✓	✓	✓	✓
DIN 51547 Part 1, 2 & 3 / ISO 12925-1 CKC/CKD	✓	✓	✓	✓	✓	✓	✓
DAVID BROWN S1.53.101 Type M, A & E	✓	✓	✓	✓	✓	✓	✓
Siemens MD for Flender Gearboxes-Revision 15			✓	✓	✓	✓	✓

Typical properties

Test parameters	Method	68	100	150	220	320	460	680
Viscosity @ 40 °C, cSt	ASTM D 445	68	100	150	220	320	460	680
Viscosity @ 100 °C, cSt	ASTM D 445	8.6	11.0	15.0	19.0	24.0	30.4	38.0
Viscosity Index	ASTM D 2270	>95	>95	>95	>95	>95	>95	>90
Flash Point, °C	ASTM D 92	>200	>200	>200	>200	>200	>200	>200
Pour Point, °C	ASTM D 97	<-9	<-9	<-9	<-9	<-9	<-9	<-9
Density @ 15 °C, Kg/l	ASTM D 4052	0.88	0.88	0.89	0.89	0.89	0.89	0.89
4-Ball EP – Weld Load, kg	ASTM D 2783	>180	>180	>180	>200	>200	>200	>200
Timken test – OK load, lbs	ASTM D 2782	-	-	>60	>60	>60	>60	>60
FZG A/16.6/90, fail stage	ASTM D 2782	-	-	12+	12+	12+	12+	12+
Copper corrosion	ASTM D 130	1B	1B	1B	1B	1B	1B	1B

Above characteristics are mean values given as information. They do not constitute a specification.