



FG Syn Gear Oil

General Description

Cenex® FG Syn Gear Oil is recommended for a variety of gearboxes and other critical applications in food and beverage manufacturing facilities. FG Syn Gear Oil is NSF H1 registered for incidental food contact and was formulated to withstand severe loading conditions and prevent rust and corrosion.

FG Syn Gear Oil contains 100% synthetic base stock to provide superior protection in extreme high and low temperatures. It also offers great seal compatibility and excellent nonfoaming qualities. Its anti-wear capability differentiates it from many other white oils on the market. To ensure good metal adhesion, it contains a shear stable polymeric tackifier system. FG Syn Gear Oil helps factories avoid unplanned downtime and expensive repairs by providing long-lasting, reliable protection that keeps critical equipment running in extreme temperatures.

Typical Applications

Cenex® FG Syn Gear Oil meets or exceeds:

- ANSI/AGMA 9005-D94 S
- ANSI/AGMA 9005-E02 EP
- Halal (Certified by IFANCA)
- Kosher Pareve
- NSF H1

Typical Properties

ISO VG	150	220	320	460
AGMA Grade	4 EP	5 EP	6 EP	7 EP
Relative Density @ 60°F/60°F, ASTM D1298	0.855	0.856	0.863	0.858
Viscosity @ 100°C, cSt, ASTM D445	20.27	27.12	36.12	48.64
Viscosity @ 40°C, cSt, ASTM D445	161.3	238.2	341.1	488.2
Viscosity Index ASTM D2270	146	147	152	156
Flash Point °C (°F) (COC), ASTM D92	>240 (>464)	>240 (>464)	>240 (>464)	>240 (>464)
Pour Point °C (°F), ASTM D97	-36 (-33)	-33 (-27)	-30 (-22)	-30 (-22)
Rust Test 4 hrs @ 60°C, Sea H ₂ O, ASTM D665B	Pass	Pass	Pass	Pass
Copper Corrosion 3 hrs @ 100°C, ASTM D130	1b	1b	1b	1b
Copper Corrosion 3 hrs @ 121°C, ASTM D130	1b	1b	1b	1b
FZG Fail Stage, DIN ISO 51354	>12	>12	>12	>12
Four-Ball Wear @ 75°C, 1,200 rpm, 40 kgf, 60 minutes, mm wear, ASTM D4172	0.30	0.30	0.30	0.30
Emulsion Characteristics @ 82°C, oil-water-emulsion/minutes, ASTM D1401	40-40-0/10	40-40-0/10	40-40-0/10	40-40-0/10
Foaming Characteristics @ 24°C/93.5°C/24°C, 3 sequences, ml of foam/time to break, ASTM D892	0/0; 0/0; 0/0	0/0; 0/0; 0/0	0/0; 0/0; 0/0	0/0; 0/0; 0/0
Color	Amber	Amber	Amber	Amber

The typical properties listed reflect the general characteristics of the product, and are not manufacturing specifications. Normal batch-to-batch variations should be expected.

Health & Safety

A complete safety data sheet is available by calling 1-651-355-8438 or visit cenex.com/sds-library.