

SYNTHETIC GBC Gear, Bearing and Compressor Oils

Description

Synthetic Gear, Bearing and Compressor (GBC)

Oils are high quality rust and oxidation inhibited synthetic oils fortified with ashless, non-zinc anti-wear additives for excellent gear and bearing protection.

Synthetic Gear, Bearing and Compressor Oils protect against rust, corrosion and deposit formation. They are highly resistant to oxidation and minimize sludge and varnish formation for dependable and durable service.

Synthetic Gear, Bearing and Compressor Oils are designed for superior performance in a wide variety of industrial applications including hydraulics, compressors, circulating systems, pumps and helical spur or worm gearboxes where appropriate.

Features/Benefits

- ✓ **Anti-wear Additives Extend Equipment Life**
- ✓ **Excellent Cold Flow Properties**
- ✓ **Thermally Stable**
- ✓ **Free of Heavy Metals**
- ✓ **Excellent Demulsibility**
- ✓ **Non-corrosive to Yellow Metals**

Specifications:

Synthetic GBC Oils are formulated for use in applications according to the listed performance specifications and the appropriate viscosity.

Industrial Gear Reduction

AGMA 9005-E02 (R&O)

Physical, Chemical & Performance Properties

Product Number	541	542	543	544	545	546	547	548
ISO Viscosity Grade	32	46	68	100	150	220	320	460
Viscosity @ 100°C cSt	6.2	7.3	10.5	13.5	19.7	26.5	35.2	47
Viscosity @ 40°C cSt	33.6	42.9	68.7	100	151.2	222	321.7	456
Viscosity Index	136	135	139	135	150	153	155	161
Density (lb/gal)	6.989	7.001	7.051	7.119	7.158	7.189	7.215	7.251
Flash Point °C (°F)	264 (507)	252 (486)	252 (486)	262 (504)	284 (543)	280 (536)	290 (554)	290 (554)
Fire Point °C (°F)	276 (529)	274 (525)	276 (529)	274 (525)	302 (576)	302 (576)	312 (594)	314 (597)
Pour Point °C (°F)	-53 (-63)	-48 (-54)	-40 (-40)	-40 (-40)	-44 (-47)	-40 (-40)	-40 (-40)	-37 (-35)
Foam Tendency	0/0/0	0/0/0	0/0/0	0/0/0	0/5/0	0/20/0	0/10/0	0/20/0
Copper Corrosion	1A	1A	1A	1A	1A	1A	1A	1A
FZG Failure Stage	11	11	11	11	>12	>12	>12	>12



Application Recommendations

Compressors

Use the appropriate viscosity grade in single and multi-stage rotary screw, vane and reciprocating compressor crankcases and cylinders, vacuum pumps and other compressor applications. **Synthetic Gear, Bearing and Compressor Oils** are recommended for use up to 8,000 hours or more if the oil is determined to be suitable for continued use by oil analysis.

The service life is dependent on operating conditions and maintenance practices. Oil analysis is recommended every 1,000 hours of operation. **Synthetic Gear, Bearing and Compressor Oils** are compatible with petroleum oils, most synthetic oils and most seals, paints, plastics and materials commonly used in compressors.

Synthetic Gear, Bearing and Compressor Oils are not compatible with synthetic silicon (Sullair 24Kt) or poly glycol (PAG) fluids such as Ingersoll-Rand SSR Ultra Coolant and Sullube 32. Polycarbonate bowls should be metal covered.

Synthetic Gear, Bearing and Compressor Oils are not recommended for "breathing air" or refrigeration compressors.

Gears

Synthetic Gear, Bearing and Compressor Oils are compatible with petroleum oils, most synthetics oils and most seals, paints, plastics and materials commonly used in enclosed industrial gear sets. **Synthetic Gear, Bearing and Compressor Oils** are not compatible with synthetic poly glycol (PAG) gear oils. Higher viscosity grades ISO 320 and ISO 460 are commonly used for worm gears. While **Synthetic Gear, Bearing and Compressor Oils** provide excellent anti-wear and mild EP protection, they are not full extreme pressure (EP) fortified gear oils. For high EP gear oils, refer to U.S. Lubricants' full line of **Synthetic Extreme Pressure (EP) Industrial Gear Oils**.