



Product Data Sheet

Industrial Gear SGO Oils

Full Synthetic ISO VG 68, 100, 150, 220, 320, 460

DESCRIPTION

Nemco Synthetic Industrial Gear SGO lubricants are intended for enclosed gear sets operating under severe temperature ranges and load. Nemco SGO lubricants are premium, extreme pressure (EP) oils formulated with synthetic polyalphaolefin (PAO) base oils, and are designed for use in enclosed industrial gears, gear boxes operating at elevated temperatures, and rolling bearings in pump crankcases. Nemco SGO oils meet or exceed the requirements of the industry standard U.S. Steel 224 and AGMA 250.04 EP.

Advantages

- Manufactured using fully synthetic polyalphaolefin (PAO) base oils
- Compatible with seals and paints normally used with mineral oils
- Blended using latest EP additive technology
- Outperforms all conventional mineral based industrial gear oils
- Reduces oil change frequency, longer oil service life
- Increased equipment life and operational efficiency
- Improved load carrying extreme pressure and shock properties
- Improves efficiency under severe temperature ranges

Applications

- Specially formulated to protect moderate to heavily loaded industrial gears and bearings
- Provide excellent anti-wear and load carrying capability, as well as strong rust inhibition and demulsibility performance
- Suitable for use in spur, helical, herringbone, bevel gearing, and most types of industrial hypoid gearing, ball, roller, and other types of anti-friction bearings

Meets and/or exceeds

- U.S. Steel 224
- AGMA 250.04 EP 2



Product Data Sheet

Notes

Industrial Gear SGO oils are not recommended for worm gears due to compatibility concerns of sulphur/phosphorous additives with bronze metallurgy. Industrial gear lubricants as a class are not formulated for some types of heavily loaded hypoid gearing. In these cases automotive type gear lubricants offer better protection.

- Always follow OEM recommendations when choosing the appropriate viscosity grade
- Maximum performance is attained when equipment is clean and in good condition
- Minimize contamination from previous lubricants or their residues

Typical Characteristics – Industrial Gear SGO Oils

ISO Grade	68	100	150	220	320	460
AGMA Gear Oil Number	2EP	3EP	4EP	5EP	6EP	7EP
Viscosity at 40°C, cSt at 100°C, cSt	68.0 10.0	100 15.0	150 18.0	220 23.0	323.0 33.0	458 45.0
Viscosity Index	124	124	124	124	124	124
Pour Point, °C (°F)	-44 (-47)	-44 (-47)	-40 (-40)	-38 (-36)	-35 (-31)	-32 (-26)
Flash Point, °C (°F)	238 (460)	238 (460)	238 (460)	238 (460)	238 (460)	238 (460)
Specific gravity	0.853	0.859	0.865	0.873	0.877	0.881

Physical characteristics shown in the table are typical and may vary slightly.