

## Synthetic Industrial Gear Oils (SGO)

### Full Synthetic, Extreme Pressure Lubricating Oils

#### 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.

#### 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 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
- Note: Industrial SGO's are not recommended for worm gears due to compatibility of sulphur/phosphorous additives with bronze metallurgy.

#### Suitable/Recommended for

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

#### Use and Storage

To get the best performance from your equipment ensure products meet or exceed manufacturing requirements. Lubricants typically have a shelf life of 5 years under ideal storage conditions. Keep drums and totes in good condition and away from moisture. Keep bungs securely in place; as bungs breath moisture can seep in over time. Where possible, avoid storage in areas where the temperature fluctuates between extreme highs and lows.

#### Typical Characteristics - Synthetic Gear Oils

Properties	Method	Performance					
ISO Viscosity Grade	-	68	100	150	220	320	460
AGMA No. (non-EP)	-	2 EP	3 EP	4 EP	5 EP	6 EP	7 EP
Kinematic Vis@40°C mm <sup>2</sup> /s	ASTM D445	68.5	100	150	220	320	460
Kinematic Vis@100°C mm <sup>2</sup> /s	ASTM D445	10.0	15.0	18.0	23.0	33.0	45.0
Viscosity Index	ASTM D2270	129	157	133	128	144	152
Flash Point (COC) °C(°F)	ASTM D92	238(460)	238(460)	238(460)	238(460)	238(460)	238(460)
Pour Point °C(°F)	ASTM D97	-44(-47)	-44(-47)	-40(-40)	-38(-36)	-35(-31)	-32(-26)

*These characteristics are typical of current production, variations in these characteristics may occur.*

## Availability and product codes

Pack size	20L pail	205L drum	1,000 tote/Bulk
Synthetic GO 68 - 460	Special Order	Special Order	Special Order
Availability	To order, contact us toll free at 855.755.6737 or orderdesk@nemco.ca		

## Health, Safety, & Environment

GHS compliant Safety Data Sheets are available at [nemco.ca](http://nemco.ca) under Safety Data Sheets. For SDS in French, please contact [info@nemco.ca](mailto:info@nemco.ca). These products are WHMIS 2015 classified. The SDS contains valuable information critical to the safe handling and proper use of the product. Always take used oil to an authorized collection point. Do not discharge into drains, soil, or water.

## Quality

Nemco Resources Ltd works with respected industry suppliers for lubricant additives and base oils. Nemco is a member of ILMA and the manufacturing facility in Winnipeg, Manitoba is proud to be certified to ISO9001. For questions regarding quality, please contact your Technical Sales Representative.