



Product Data Sheet

Synthetic R&O Oils

Full Synthetic Industrial Gear Oils 100, 220, 320, 460

DESCRIPTION

Nemco Synthetic R&O Oils are high quality synthetic lubricants designed for use in steam and gas turbines, and for circulating oil systems of a wide range of industrial machinery. They are blended with premium quality synthetic base oils and a multifunctional Rust and Oxidation (R&O) additive package. Nemco Synthetic R&O Oils provide outstanding thermal and oxidative stability, superior resistance to sludge formation, excellent water separation and outstanding protection against wear. They resist rust and corrosion and have superior antifoam characteristics. Exceptional low temperature fluidity provides applications not normally possible with petroleum products of comparable viscosity.

Advantages

- Provides excellent performance: Low temperature fluidity for easy startup
 - Increased gear life: contains specially formulated synthetic base stocks that extends lubricant life and increases gear life, has rust and oxidation protection and corrosion protection with bronze, copper, and steel metal components
- Excellent lubricating properties:
 - Has a high viscosity index for wide temperature range of service
 - Excellent lubricity properties, decreasing sliding and rolling friction in gears
 - Lower coefficient of friction properties
 - Good demulsibility for rapid water separation to protect equipment components
- Excellent operating temperature performance: synthetic R&O gear lubricants are energy efficient allowing for lower operating temperatures
- Improved cost efficiency: lower operating cost than mineral oils

Applications

- Open gear boxes (non-EP)
- Circulating oil systems
- Circulating oil for paper machines and paper machine drier bearings, calendar stacks, and winders
- Large anti-friction and journal bearings
- Use with light to moderately loaded gear systems, such as spur, helical, herringbone bevel gear applications



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Notes

Synthetic R&O Oils are not intended for use in heavily loaded gear applications or those requiring extreme pressure (EP) additives. Do not use these products in spiral bevel, hypoid or worm gear applications.

Typical Characteristics – Synthetic R & O Oils

ISO Grade	100	220	320	460
Viscosity at 40°C, cSt at 100°C, cSt	99.2 12.9	220 22.8	320 29.1	460 37.2
	124	124	123	121
Pour Point, °C (°F)	-40 (-40)	-37 (-35)	-34 (-29)	-29 (--20)
Flash Point, °C (°F)	246 (475)	246 (475)	242 (468)	241(466)
Specific gravity	0.866	0.875	0.878	0.881

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