



PRODUCT DATA SHEET

NATIONAL™ EP SYNTHETIC GEAR OILS

PRODUCT DESCRIPTION

NATIONAL EP SYNTHETIC GEAR OILS are high quality industrial EP lubricants especially formulated to provide exceptional load carrying and antiwear properties; protection against rust, corrosion, foaming, oxidation, and excellent demulsibility.

Our advanced formulation, with PAO (Poly-Alpha-Olefins) and the most advanced additive technology, possess very high shear stability even under heavy loaded high speed conditions. The low pour point and very good low temperature fluidity of NATIONAL EP SYNTHETIC GEAR OILS provides excellent lubrication during startup at sub-zero temperatures, while their exceptional viscosity-temperature characteristics provide dependable lubrication at high temperatures.

INDUSTRY AND OEM²:

- ◆ MAG Cincinnati, Cincinnati Machine:
P-63 (ISO 68), P-76 (ISO 100), P-77 (ISO 150),
P-74 (ISO 220), P-59 (ISO 320), P-35 (ISO 460)
- ◆ US Steel 224
- ◆ DIN 51517 (Part 3)
- ◆ AGMA 9005-E02

APPLICATIONS

NATIONAL EP SYNTHETIC GEAR OILS are recommended for almost any type of enclosed gear and plain and rolling bearings applications especially those running at continuously hot temperatures (up to 105°C) or exposed to extremely cold temperatures (as low as -46°C) or under severe service conditions such as low speeds or heavy loads.

FEATURES:

- ✓ With its high VI, promotes an increase in the oil film thickness and better antiwear protection at higher operating temperatures
- ✓ Longer drain intervals that mineral oils, means fewer oil changes, reduced maintenance costs, and less used oil disposal.
- ✓ Ideal for heavily loaded low speed gears and bearings where boundary or elasto-hydrodynamic lubrication (EHL) conditions exist, such as in mine hoist gear reducers
- ✓ Compatible with most mineral oil based industrial EP/R&O gear lubricants

D0160416

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The product described above is designed for a specific use and may not be valid for other uses not specified in our specification sheet or in applications not requiring this specific product. Pinnacle Oil believes that the information presented in this specification is accurate at the time written and is based upon internally generated information and information as presented by its vendors. No representation, warranty, or guarantee is made as to its accuracy or completeness. We do not accept any liability for any loss or damage that may occur from the use of this information.



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TECHNICAL DATA

(typical values ¹⁾)

ISO GRADE		150	220	320
Product Number		07-526150	07-526220	07-526320
SDS Number		S016.1	S016.1	S016.1
Viscosity @ 40°C, cSt	D445	156.50	220.00	322.10
Viscosity @ 100°C, cSt	D445	21.10	27.59	37.10
Viscosity Index	D2270	159	162	164
API Gravity at 60°F	D1250	32.8	32.7	32.5
Pour Point, °C	D5950	-24	-30	-39
Color ASTM	D1500	L0.5	L0.5	L0.5
Demulsibility	D1401	40-37-3, 13'	40-40-0, 8'	40-40-0, 15'
Flash Point, °C	D92	220	230	230

- 1) Value applies only to "point of manufacture".
- 2) Consult your owner's manual regarding its suitability for use in equipment from other OEMs. These lubricants perform in most equipment without concern for fluid-related harm.
- 3) These lubricants have a typical sulfur-phosphorus odor characteristic of industrial gear oils; a ventilated environment is recommended during use

The recommended shelf life for these oils is typically 12 months from manufacturing date when stored properly in the original sealed containers.

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