



NATIONAL | Extreme Pressure Industrial Gear Oils

Product Description

NATIONAL EP Gear Oils are premium extreme pressure lubricants formulated with the latest sulfur-phosphorous additive technology to provide excellent load carrying capacity, corrosion protection, water demulsibility and excellent oxidation stability.

Features

- ✓ Minimizes wear, forms a protective film in areas of metal-to-metal contact
- ✓ EP & load carrying capabilities
- ✓ Excellent water separation (demulsibility) that facilitates water removal
- ✓ Excellent thermal and oxidation stability that reduces the formation of deposits
- ✓ Minimum viscosity changes over a wide temperature range

Industry and OEM Applications ¹

- ◆ 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)
- ◆ AGMA 9005-E02
- ◆ US Steel 224
- ◆ DIN 51517 (Part 3)

NATIONAL EP GEAR OILS are recommended for general industrial plant lubrication where the performance properties of an AGMA extreme pressure lubricant is required and many types of enclosed gearing applications where loads and shock loading are high.

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 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.



Technical Data

ISO GRADE		68	100	150	220	320	460
Product Number		07-525068	07-525100	07-525150	07-525220	07-525320	07-525460
SDS Number		S137	S137	S137	S137	S137	S138
Viscosity @ 40°C, cSt	D445	66.84	99.22	159.60	212.30	303.90	467.20
API Gravity at 60°F	D1250	30.2	29.5	26.6	28.8	27.9	27.1
Pour Point, °C	D5950	-21	-27	-24	-15	-15	-12
Color ASTM	D1500	L1.5	L2.5	L2.5	L2.5	L3.0	L3.5
Demulsibility	D1401	PASS	PASS	PASS	PASS	PASS	PASS
Flash Point, °C	D92	220	220	220	230	230	230
Timken OK load, lbf	D2782	65	65	65	65	65	65
4 Ball Weld							
Weld Point, Kg	D2783	250	NA	315	315	250	250
Load Wear Index		46.8		50.6	51.9	44.1	49.5
FZG Pass Stage	D5182	>12	NA	>12	>12	>12	>12
FZG Scuff Test, A/8.3/90°C, fail Stage	D5182	>14	NA	>14	>14	>14	>14

- 1) Consult your owner's manual regarding its suitability for use in equipment from other OEMs. This fluid performs in most equipment without concern for fluid-related harm. Additive producer applied engineering judgement to our data set and are confident that their additive can meet the performance requirements of the OEMs we have listed.
- 2) Technical data are typical values and may vary.
- 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 24 months from manufacturing date when stored properly in the original sealed containers.

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