



## INDUSTRIAL EP GEAR LUBRICANT

**PRODUCT CODE:** 31110, 31120, 31130, 31140, 31150, 31170

### DESCRIPTION

49 NORTH® INDUSTRIAL EP GEAR LUBRICANTS are special formula gear lubricants for heavy duty industrial gear sets.

### QUALITIES

49 NORTH® INDUSTRIAL EP GEAR LUBRICANTS are formulated with premium high quality base oils to provide optimum load carrying capability, water separation and oxidation resistance. The additive system incorporated in 49 NORTH® INDUSTRIAL EP GEAR LUBRICANTS provides extreme pressure (EP) and anti-wear protection, superior oxidative and thermal stability, increased protection against rust and corrosion and excellent seal compatibility.

At the high localized temperatures achieved under heavy load conditions, the sulfur-phosphorus EP additive in 49 NORTH® INDUSTRIAL EP GEAR LUBRICANTS chemically reacts with the metal surfaces in order to prevent the welding, scoring, and galling that may occur as the oil film is broken. By modifying the metal surfaces at contact in this manner, wear is reduced and the gear life is extended.

49 NORTH® INDUSTRIAL EP GEAR LUBRICANTS are not to be used in automotive differential gear sets that require the use of API GL-5 rated gear oils, and are not food grade products.

Care should be taken to prevent the contamination of gear oils, since industrial gear oils typically have a long service interval recommendation. Materials such as water, scale, and dirt can degrade the performance of the oil, in addition to increasing the performance demands on the oil.

### APPLICATIONS

49 NORTH® INDUSTRIAL EP GEAR LUBRICANTS are recommended for industrial gear sets calling for a premium industrial gear oil, a gear oil with AGMA 250.04 or U.S. Steel 224 performance, as well as enclosed gear drives including the following types of gears:

- Spur
- Helical
- Double helical or “herringbone”
- Straight bevel
- Worm (In some applications only)

Worm gear sets that are comprised entirely of steel or ferrous components typically accept an AGMA style of gear oil readily. Worm gear sets that contain copper, brass, bronze, or other red and yellow metal alloys generally should not use an AGMA style of gear lubricant.

This product is suitable for splash, chain, or ring delivery as well as for circulation or pump delivery.

### CONTACT

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**FEATURES & BENEFITS**

Excellent extreme pressure properties reduce the wear and maintenance costs where applicable.

Enhanced oxidative and thermal stability lead to longer fluid life.

Superior rust and corrosion prevention leads to prolonged equipment life.

Excellent seal compatibility decreases degradation and swelling of seal materials.

**TYPICAL PROPERTIES**

ISO Viscosity	68	100	150	220	320	460
Product Code	31110	31120	31130	31140	31150	31170
AGMA Grade	2EP	3EP	4EP	5EP	6EP	7EP
API Gravity	31.4	30.1	29.3	28.4	27.7	27
Viscosity @ 40°C, cSt	69.3	104.1	150.4	230.6	336.1	467.8
Viscosity @ 100°C, cSt	9.1	11.8	15.3	19.3	25.4	31.5
Viscosity Index	106	102	103	95	98	98
Pour Point, °C	-30	-30	-30	-12	-9	0
Flash Point, °F (°C)	420 (215)	425 (218)	430 (221)	435 (224)	435 (224)	440 (227)

The typical properties listed reflect the general characteristics of the product, and are not manufacturing specifications. Normal batch-to-batch variations should be expected.

**HEALTH & SAFETY**

A complete Safety Data Sheet (SDS) is available upon request. Used oil contains by-products which may be harmful.

**PACKAGE SIZES**

Available in bulk, 1211 L totes, 208 L drums, 20 L pails

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