



THOMAS
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 ARKANSAS 800-460-6851

EP Gear Oils

ISO 320, 460

CUSTOMER BENEFITS

EP Gear Oils deliver value through:

- **Fast water separation** — Separates extremely quickly from water and is highly resistant of forming permanent emulsions.
- **Maximum protection** — Gear teeth are protected from wear, surface distress, and premature failure by effective sulfur-phosphorus extreme pressure additives.
- **Excellent thermal and oxidation stability** — Minimal degradation even when operating in conditions of severe oxidation and thermal stress, due to **Group 2 base stock**. Provides extended service life.
- **Excellent for misting systems** — Prevents oil mist deposits due to excellent oxidation stability.
- **Superior rust and corrosion inhibition** — Reduces corrosion in gear sets made of steel or nonferrous metals.

FEATURES

EP Gear Oils are multipurpose gear lubricants. They provide excellent thermal stability, extreme pressure protection, antiwear and demulsibility, oxidation, rust, corrosion control and foam inhibition.

APPLICATIONS

EP Gear Oils are recommended wherever an AGMA extreme pressure lubricant is specified and for all industrial enclosed gear sets. EP Gear Oils are recommended for all mist oil systems, in the proper viscosity grade. EP Gear Oils meet the requirements of:

- **U.S. Steel 224** (ISO 68, 100, 150, 200, 320, 460, 680)
- **AGMA 9005** (ISO 68, 100, 150, 220, 320, 460, 680, 1000, 1500)
- **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)

Typical Test Data - EP Gear Oils

ISO Grade	320	460
AGMA Grade	6 EP	7 EP
API Gravity @ 60 F	27.0	26.5
Viscosity, Kinematic cSt at 40°C cSt at 100°C	320.9 24.0	475.3 31.0
Viscosity Index	95	95
Flash Point, °C (°F)	251(485)	260(500)
Pour Point, °C (°F)	-15(5)	-15(5)
Water Separation (oil/water/emulsion) (Pinnacle Performance Test: RWS)	40/37/3 @15 minutes	40/36/4 @15minutes
Demulsibility, ASTM 1401 @ 130 ° F	Pass (40/38/2) after 30 minutes	Pass (40/36/4) after 30 minutes
Demulsibility, ASTM 1401 @ 180 ° F	Pass (40/39/1) after 10 minutes	Pass (40/37/3) after 10 minutes

The values shown are typical of current production. Some are controlled in the manufacturing process, while others are not. All of them may vary within tolerable ranges.



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Competitive Comparison

Comparable means that the products have similar performance in the applications for which they were designed. It does not mean that they are compatible. When replacing lubricants, our recommendation is to drain and flush the system prior to filling with the new product.

Gear Oil Comparison

	Thomas EP Gear ISO 320	*Chervon Gear Compound EP ISO 320	Thomas EP Gear ISO 460	*Chervon Gear Compound EP ISO 460	**Mobilgear® 632
<u>Typical Test Data</u>					
ISO Grade	320	320	460	460	320
AGMA Grade	6 EP	6 EP	7 EP	7 EP	6 EP
API Gravity @ 60°F	27.0	27.3	26.5	26.1	27.1
Viscosity, Kinematic					
cSt at 40°C	320.9	304	475.3	437.0	320
cSt at 100°C	24.0	23.2	31.0	29.4	24.5
Viscosity Index	95	955	95	95	97
Flash Point, °C (°F)	251(485)	245(473)	260(500)	245(473)	265(512)
Pour Point, °C (°F)	-15(5)	-12(10)	-15(5)	-12(10)	-18(0)
Water Separation (oil/water/emulsion) (Pinnacle Performance Test: RWS)	40/37/3 @15 minutes	N/A	40/36/4 @15 minutes	N/A	N/A

Typical test data are average values only. Minor variations which do not reflect performance are to be expected in normal manufacturing.

*Source – <https://www.cbest.chervon.com/msdsServer>

**Source – <http://www.exxonmobil.com/pdssearch/search.asp>