

product data sheet

VARGEAR EP RANGE

Extreme Pressure Industrial Gear Oils

VARGEAR EP gear oils are based on highly refined mineral oils with extreme pressure additives for protection against wear even under high loads. This unique formulation provides a very stable, high viscosity grade that can be used in arduous conditions for long service life and for use in systems operating at elevated temperatures.

VARGEAR EP gear oils are available in a graded range of viscosities and are suitable for most types of industrial gears.

VARGEAR EP gear oils are formulated for use in industrial gearboxes, bearings and machinery where outstanding extreme pressure characteristics are required to handle the high speed shock loading and high torque conditions that can occur under high loads.

VARGEAR EP gear oils are recommended for spur, helical and herringbone gears on parallel shafts. Also for straight and spiral bevel gears on intersecting shafts and skew and worm gears on crossed shafts. They are also suitable for use on chain drives and bearings. Please refer to the manufacturer for guidance on viscosity grade required.

Features and Benefits

Extreme pressure additives for protection against wear

Resistant to oxidation

Excellent thermal stability

Cost effective

Compatible with common sealing materials

Meets or exceeds Industry Standards

Specifications

U.S. Steel 224, 222, 223

SEB 181 226

DIN 51517, part 3 (CLP)

AGMA 250.04 (EP Gear Oils)

ISO 12925

AGMA 9005-D94 (EP Gear Oils)

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Typical Data

| ISO Grade | | | 32 | 68 | 100 | 150 | 220 | 320 | 460 | 680 |
|----------------------------|----------------------|------------|-------|-------|--------|--------|--------|--------|--------|--------|
| Parameter | Unit | Method | | | | | | | | |
| Kinematic Viscosity | | | | | | | | | | |
| KV40 | mm ² /Sec | ASTM-D445 | 32.00 | 68.00 | 100.00 | 150.00 | 220.00 | 320.00 | 460.00 | 460.00 |
| KV100 | mm ² /Sec | ASTM-D445 | 5.37 | 8.70 | 11.36 | 15.00 | 18.80 | 24.00 | 31.00 | 31.00 |
| Viscosity index | - | ASTM-D2270 | 99 | 99 | 99 | 99 | 95 | 95 | 95 | 95 |
| Density @ 15.5°C | g/cm ³ | ASTM-D4052 | 0.848 | 0.882 | 0.884 | 0.890 | 0.900 | 0.900 | 0.902 | 0.902 |
| Flashpoint | °C | ASTM-D92 | 204 | 208 | 212 | 218 | 218 | 218 | 220 | 220 |
| Pour point | °C | ASTM-D97 | -18 | -15 | -15 | -15 | -15 | -12 | -12 | -12 |

Varol Metalworking

Varol Machine Lubricants

| | | | |
|-------------------------------|--|--|---|
| Varcut | Neat cutting oils, high performance, extensive range of viscosities | Varlube S Viscosity 32 - 320 | Slideway |
| Varform | Comprehensive range of neat forming oils, including water extendable versions and vanishing oils | Varmulti Viscosity 32 - 680 | Multilube - Slideway, Gear, Hydraulic |
| Varclean | Aqueous based wash fluids, surface cleaners and solvent degreasers | Vargear Viscosity 68 - 460 | Industrial Gear |
| Varcool & Vargrind | Comprehensive range of high performance water soluble fluids. Low, medium, high oil content and synthetics | Varpress Viscosity 5 - 150 | Hydraulic oil range covering zinc containing, zinc free and high VI |