



MIST OIL

(Mist Controlled EP Gear Oils)

MIST OILS are premium quality, lead-free, heavy-duty industrial gear lubricants designed for use in a wide variety of applications that are lubricated with specialty mist lubricators. They are compounded from selected paraffinic base oils and a balanced additive package that includes extreme pressure additives and a stray mist control agent. These oils are specially formulated for use in gears and bearings operating under severe service conditions.

Industrial gears often encounter heavy continuous loads or frequent shock loads. The extreme pressure additive system in **MIST OILS** serves to increase lubricant film strength and provide extra protection under boundary lubrication conditions. The result is reduced gear and bearing wear, longer component life and lower maintenance cost.

MIST OILS also contain potent oxidation inhibitors to control sludge and varnish. This has become increasingly important in today's hot running, high output industrial gear cases. This additional oxidation resistance serves to extend oil drain intervals and reduce oil usage.

The special additives that allow rapid water separation make **MIST OILS** ideal for applications where water contamination is a frequent problem. Such conditions often exist in steel mills, aluminum rolling mills, paper mills and other similar industries.

Other additives in **MIST OIL** inhibit rust and corrosion. This makes **MIST OIL** suitable for use with all types of gear and bearing metallurgy including steel, bronze, and aluminum and copper alloys. Foam inhibitors provide extra resistance to foaming.

OIL MIST SYSTEMS:

Oil mist systems suitable for **MIST OILS** are commonly selected and utilized when bearings or gears are located in hostile or hazardous environment. The mist generator and lube

reservoir is located in a less hazardous location where it is easily serviced. Mist lubrication systems continually provide fresh lubricant to the bearing surface as a once-through application. Misted bearings and gears have less fluid friction and tend to run cooler than immersed gears.

BENEFITS:

- MAXIMIZES USABLE MIST AND CONTROLS STRAY MIST
- EXTREME PRESSURE PROPERTIES FOR HEAVY LOAD APPLICATIONS
- RAPID AIR RELEASE
- RESISTS FOAMING
- RAPID WATER SEPARATION
- PROTECTION AGAINST RUST AND CORROSION

APPLICATIONS:

MIST OILS are recommended for all types of industrial enclosed gear drives. They are especially useful in applications where heavy loads or shock loads are encountered. **MIST OILS** may be used in other mist oil applications such as heavily loaded multi-element bearings, chains and slides.

MIST OILS are available in ISO viscosity grades 100 through 460. They can be used effectively in mist oil systems where the mist is applied as mist or condensed ("reclassified") into spray mist, spray, or drip systems. Heavier grades are typically heated to improve mist generation.

MIST OILS satisfy all major industrial gear manufacturers requirements including AGMA 250.03, Cincinnati Milacron and U. S. Steel EP gear oil requirement 224.



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TYPICAL CHARACTERISTICS

| | | | | | |
|--|-------------------------|--------------------------|---------------------------|----------------------------|----------------------------|
| ISO Viscosity Grade | 100 | 150 | 220 | 320 | 460 |
| Product Code | 28183 | 28184 | 28185 | 28186 | 28187 |
| AGMA Grade | 3EP | 4EP | 5EP | 6EP | 7EP |
| Specific gravity | 0.882 | 0.887 | 0.890 | 0.892 | 0.895 |
| API Gravity (ASTM D-1298) | 28.9 | 28.1 | 27.6 | 27.1 | 26.6 |
| Viscosity (ASTM D-445): cSt @ 40°C cSt @ 100°C SUS @ 100°F SUS @ 210°F | 95 11.3 493 65 | 145 15.1 758 80 | 205 19.1 1078 97 | 295 24.4 1561 121 | 430 31.5 2290 154 |
| Viscosity Index, (ASTM D-2270) | 105 | 105 | 105 | 105 | 105 |
| Pour Point (ASTM D-97) °F (°C) | -10 (-23) | -10 (-23) | 0 (-18) | 0 (-18) | 10 (-12) |
| Flash Point (ASTM D-92) °F (°C) | 415 (213) | 415 (213) | 425 (218) | 450 (232) | 450 (232) |
| Color (ASTM D-1500) | 4.0 | 4.5 | 4.5 | 5.0 | 5.5 |
| Timken OK Load, lbs (ASTM D-2782) | 65 | 65 | 65 | 65 | 65 |
| Four Ball EP (ASTM D-2783) Weld Point, kg Load Wear Index | 250 47 | 250 47 | 250 47 | 250 47 | 250 47 |
| FZG Test, Load Stages passed | 12 | 12 | 12 | 12 | 12 |
| Cincinnati Machine Quality Level | P-76 | P-77 | P-74 | P-59 | P-35 |

The above data is subject to usual manufacturing variation. For more information and availability, call 1-800-442-LUBE.
10/09/03