

May 6, 2009

P.O. Box 131359 • Tyler, Texas 75713, Phone 903.534.8021 • Fax 903.581.4376

Product Data Sheet



NOTE: The information in this publication is the result of careful testing in our laboratories, complemented by selected literature. It does not in any way constitute a guarantee, nor does it serve as a license to operate any patent. Due to widely varying conditions of product use, which are beyond our control, it is strongly recommended that the product be tested for suitability. Product typical properties in this publication are current as of May 6, 2009.

BIODEGRADABLE EP GEAR LUBRICANT

ENVIROTECH® EP GEAR OIL SERIES

EnviroTech® EP Gear Oils are environmentally responsible lubricants designed for the protection of gears and bearings in systems where high temperature and/or extreme pressure conditions exist. It is a vegetable based formulation recommended for lubricating spur, helical, bevel, and worm gear configurations. These biobased lubricants are intended for heavy-duty applications subject to heavy loading or shock loading. EnviroTech® EP Gear Oils meet or exceed the following performance requirements:

- U.S. Steel 224
- AGMA 9005/250.04
- DIN 51517, Part 3
- David Brown DB S1.53.101
- Cincinnati Machine E.P.

Classified as ultimately biodegradable (Pw1) and non-toxic, EnviroTech® EP Gear Oils are ideal for equipment operating in environmentally sensitive areas.

Physical Properties

| EnviroTech® | EP-150 | EP-220 | EP-320 | EP-460 |
|--|-----------------|-----------------|----------|----------|
| ISO Grade, Approximate | 150 | 220 | 320 | 460 |
| AGMA #, Approximate | 4 EP | 5 EP | 6 EP | 7 EP |
| Specific Gravity | 0.900 | 0.903 | 0.900 | 0.908 |
| Viscosity | | | | |
| @40°C, cSt | 131 | 166 | 252 | 382 |
| @100°C, cSt | 20 | 24.1 | 34 | 49 |
| Viscosity Index | 175 | 177 | 182 | 194 |
| Pour Point °F(°C) | -8(-22) | -4(-20) | 0(-18) | 10(-12) |
| Flash Point °F(°C) | (550)288 | 536(280) | 536(280) | 536(280) |
| Copper Corrosion | 1A | 1A | 1A | 1A |
| Rust Test | Pass | Pass | Pass | Pass |
| Timken OK, lbs | 70 | 70 | 70 | 70 |
| Four-Ball Wear | 0.3 | 0.3 | 0.3 | 0.3 |
| Four-Ball EP Weld Point (kg) | 250 | 250 | 250 | 250 |
| Four-Ball EP Load Wear Index | 47.86 | 47.86 | 47.86 | 47.86 |
| FZG Test | 12 | 12 | 12 | 12 |
| Biodegradation Classification, ASTM D 5864 | ultimate PW1 | ultimate PW1 | inherent | inherent |