

# Plurasafe® Insure™ Gear Lubricants Water Soluble



**Plurasafe® Insure™ Gear Lubricants Water Soluble** are extreme pressure lubricants especially designed for the food industry. All meet the FDA regulation 21 CFR 178.3570 for applications where incidental food contact may occur. Plurasafe Insure Gear Lubricants Water Soluble are also in the process of registration with the NSF under H-1 classification.

Plurasafe Insure Gear Lubricants Water Soluble offer improved performance over conventional petroleum oils; food grade white oils and other hydrocarbon based synthetic food grade lubricants. Each provides excellent lubricity, high viscosity indices and increased thermal and oxidative stability. Plurasafe Insure Gear Lubricants Water Soluble come in four water soluble ISO viscosity grades (150, 220, 320, 460) to meet your lubrication requirements.

## Elastomer Compatibility

Plurasafe Insure Gear Lubricants Water Soluble are compatible with common elastomers used in seals and gaskets. The following elastomers are compatible - Viton, Buna N, silicone, EPDM, EPR, Butyl Rubber, Neoprene and natural black rubbers.

## Applications

Plurasafe Insure Gear Lubricants Water Soluble can be used in all types of gearboxes up to several horsepower. All are also suitable as bearing oil for medium to high load carrying bearings.

### Typical Physical Properties of Plurasafe Insure Gear Lubricants Water Soluble

|                   | 150  | 220  | 320  | 460  |
|-------------------|------|------|------|------|
| Viscosity @ 40°C  | 151  | 221  | 317  | 442  |
| Viscosity @ 100°C | 28.6 | 34.1 | 57.8 | 79.4 |
| Viscosity Index   | 225  | 229  | 225  | 225  |
| Pour Point, °C    | -50  | -45  | -42  | -42  |
| Flash Point, °C   | 254  | 254  | 252  | 277  |

### Typical Performance Properties of Plurasafe Insure Gear Lubricants Water Soluble

|  | 150                  | 220                  | 320                  | 460                  |
|--|----------------------|----------------------|----------------------|----------------------|
| Four Ball Wear Test                    | 0.35 mm              | 0.35 mm              | 0.33 mm              | 0.32 mm              |
| Four Ball EP Test Weld Load            | 200 Kg               | 200 Kg               | 200 Kg               | 200 Kg               |
| Load Wear Index                        | 68                   | 68                   | 68                   | 68                   |
| Rust Prevention D665A                  | Pass                 | Pass                 | Pass                 | Pass                 |
| Copper Corrosion D130                  | 1B<br>100C<br>24 hrs | 1B<br>100C<br>24 hrs | 1B<br>100C<br>24 hrs | 1B<br>100C<br>24 hrs |
| FZG Pass Stage                         | 12+                  | 12+                  | 12+                  | 12+                  |
| Oxidation Stability 312 Hours @ 121° C |                      |                      |                      |                      |
| Viscosity Change %                     | 5.3                  | 5.6                  | 5.8                  | 5.7                  |
| Precipitation Number, mL               | 0.00                 | 0.00                 | 0.00                 | 0.00                 |

*\*Property values listed are representative values and are not specifications.*

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