

# Plurasafe® Insure™ Gear Lubricants Water Insoluble



**Plurasafe® Insure™ Gear Lubricants Water Insoluble** 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 Insoluble are also registered with the NSF under H-1 classification.

Plurasafe Insure Gear Lubricants Water Insoluble 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 Insoluble come in three ISO viscosity grades (155, 225, 325) to meet your lubrication requirements.

#### Elastomer Compatibility

Plurasafe Insure Gear Lubricants Water Insoluble 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 Insoluble 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. Hydraulic fluids can be formulated by blending rolling fluid into Plurasafe Insure Gear Lubricants Water Insoluble for the desired viscosity.

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Typical Physical Properties of Plurasafe Insure Gear Lubricants Water Insoluble			
	155	225	325
Viscosity @ 40°C	156	222	321
Viscosity @ 100°C	24.4	33.4	49.3
Viscosity Index	>200	196	>200
Pour Point, °C	-36	-33	-39
Flash Point, °C	252	210	248

Typical Physical Properties of Plurasafe Insure Gear Lubricants Water Insoluble			
	155	225	325
Four Ball Wear Test	0.35 mm	0.35 mm	0.32 mm
Four Ball EP Test Weld Load	160 Kg	160 Kg	170 Kg
Load Wear Index	33	33	34
Rust Prevention D665A	Pass	Pass	Pass
Copper Corrosion D130	1A 100C 24 hrs	1A 100C 24 hrs	1A 100C 24 hrs
Aluminum Staining Test	no stain 135C 96 hrs	no stain 135C 96 hrs	no stain 135C 96 hrs
FZG Pass Stage	12	12	12
Timken Test, OK Load	45	45	45
Oxidation Stability 312 Hours @ 121° C			
Viscosity Change %	10.45	14.45	12.45
Precipitation Number	0.00 ml	0.00 ml	0.00 ml

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