



Technical Bulletin

PLURASAFE® WGF-46 FG

PLURASAFE® WGF-46 FG Fluid is an ISO VG 46 grade, water glycol hydraulic fluid qualified by Factory Mutual as a Group 1 (HF-C) less flammable fluid. The fluid components meet the requirements for FDA Specification 21 CFR 178.3570 lubricants with incidental food contact, Subpart F, Food Additive Amendment to the Federal Food, Drug and Cosmetic Act.

PLURASAFE® WGF-46 FG Fluid was designed for food processing applications that require a product to be used in the areas using fryers, ovens, cookers or any other methods requiring heat applications. Most insurance companies and risk management organizations recognize the extra requirements needed using mineral oil based hydraulic fluids.

PLURASAFE® WGF-46 G Fluid is compatible with most seal and hose materials. Materials that soften and swell in the presence of water may not be compatible. The fluid water content must be monitored to maintain the proper fire-resistance and viscosity integrity. Use only de-ionized or distilled water to replace any water loss.

PLURASAFE® WGF-46 FG Fluid is also available as a concentrate named PLURASAFE® Concentrate FG Fluid. Both products are registered with NSF as H-1 lubricants approved for incidental food contact.

| Typical fluid properties of PLURASAFE® WGF-46 FG | |
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| Properties | Typical |
| ISO Viscosity Grade | 46 |
| Color | Clear to slightly turbid liquid |
| Viscosity cSt @ 40°C | 46 |
| Viscosity SUS @ 100°F | 215 |
| Specific Gravity @ 60°F | 1.06 |
| Water, % | 42 |
| Weight (lb. per gal.) | 8.83 |
| Pour Point | -50°C (-58°F) |
| pH undiluted | 9.5 |
| Four Ball Wear (ASTM D4172B modified) @ 40 KG, 130°F, 1800 rpm | .08mm |
| Rust Test (ASTM D-665A) | Pass |
| Rust Test (ASTM D-130) | 1A |
| ASTM D-2882 | Pass |

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