

Technical Bulletin

HUNTSMAN

JEFFPROTEC™ H-1 FGFR FLUID FOOD GRADE, FIRE RESISTANT HYDRAULIC FLUID

DESCRIPTION An ISO 46 grade, food grade water-glycol hydraulic fluid that meets the 21 CFR section 178.3570 requirements for incidental food contact. NSF Registered (formerly listed as a H-1 lubricant by the USDA) for use in Federally inspected meat and poultry plants where incidental food contact may occur. FM Approvals as a Group 1 less flammable fluid.

APPLICATIONS Designed primarily for the food processing industry in the areas of fryers, ovens, cookers or other high temperature surfaces are in located near sources of ignition..

SALES SPECIFICATIONS

<u>Property</u>	<u>Specifications</u>	<u>Test Method</u>
Appearance	Free of suspended solids	Visual
Specific Gravity@60/60°F	1.058 min ; 1.065 max	D-4052
Viscosity @ 100°F, cSt	40.0 min ; 48 max	D-445
pH, undiluted	8.5 min ; 9.5 max	D-1287
Water, wt%	39 min ; 45 max	D-1123

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JEFFPROTEC™ H-1 FGFR FLUID

FOOD GRADE, FIRE RESISTANT HYDRAULIC FLUID

TYPICAL PROPERTIES

ISO Viscosity Grade	46
Viscosity at 40° C, cSt	44
Viscosity at 100° F, SUS	205
Density, lb/gal	8.83
Flash Point, COC, °F	N/A
Freeze Point, °C	-50
Four Ball Wear (D-4172B) at 40 Kg, mm	0.59
Four Ball EP (D-2783) Weld Point	126 kg
Load Wear Index	25.9
Rust test (D-665A)	Pass
ASTM D-2882	50.3 mg
2000 ps @ 100 hr@ 150°F	

PRODUCT SAFETY POLICY

It is the product safety policy of Huntsman Corporation to provide our customers with information on the safe handling and use of our products. The Material Safety Data Sheet (MSDS) should always be read and understood thoroughly before handling the product, and adequate safety procedures should be followed. Information on the toxicity, environmental, and industrial hygiene aspects of our products may be found in the MSDS

HANDLING AND STORAGE

The normal precautions with any chemical should be observed in handling JEFFPROTEC H-1 FGFR. This product is neither explosive nor flammable under normal storage conditions. The propylene glycol in this product is considered practically nontoxic. Splashes onto eyes or skin, however, must be washed away quickly and medical treatment is advised for eye exposure. Breathing of the vapors or mists should be avoided.

JEFFPROTEC H-1 FGFR is compatible with most seal and hose materials, however caution must be exercised with materials that soften and swell in the presence of water.

SHIPPING

JEFFPROTEC H-1 FGFR coolant is available in tank wagons and 55-gallon, non-returnable FDA poly drums, and 275 gallon totes. Drum and tote inventory of JEFFPROTEC H-1 FGFR is available at select locations throughout the country.