

# LEXOLUBE® FRHF 46H1 Technical Data Sheet



LEXOLUBE Fire Resistant Hydraulic Fluids are high performance, NSF H1 food grade lubricants based on synthetic esters. They are approved by Factory Mutual for enhanced safety in applications with potential fire hazards. LEXOLUBE FRHF fluids provide excellent wear and corrosion protection.

Physical Properties	Test Method	Typical Value
Appearance	Visual	Clear, Amber
Kinematic Viscosity at 40°C, cSt	ASTM D445	46
Kinematic Viscosity at 100°C, cSt	ASTM D445	10
Kinematic Viscosity at 20°C, cSt	ASTM D445	105
Kinematic Viscosity at 0°C, cSt	ASTM D445	330
Viscosity Index	ASTM D2270	210
Density at 15°C	ASTM D1298	0.92
Pour Point, °C	ASTM D97	-40
Acid Number, mgKOH/g	ASTM D974	<1.0
Foam Tendency, Seq. I ml at 25°C	ASTM D892	<50
Air Release, minutes	ASTM D3427	5
Flash point, °C	ASTM D92	>300
Fire Point, °C	ASTM D92	>360

LEXOLUBE FRHF 46H1 is recommended for use in hydraulic systems where incidental food contact is possible, or anywhere that leaks or ruptured hydraulic lines may encounter a source of ignition. This fluid is designed for multi-purpose use in hydraulic applications where food safety and/or fire protection is required.

LEXOLUBE FRHF FLUIDS are formulated from high purity synthetic esters with high biobased content and advanced ashless additives to provide excellent fluid and equipment life. The inherent high viscosity index and broad operating viscosity range provides stable equipment operation with natural lubricating efficiency.

#### Recommended for applications that must meet specifications:

- Factory Mutual FM Standard 6930 - HFDU
- NSF H1, meets FDA 21.CFR 178.3570
- SS 15 54 34:2020 Hydraulic fluids
- HFDU according to DIN 51 502, ISO 6743/4
- OECD 301B Readily Biodegradable
- USDA BioPreferred



Performance Properties	Test Method	Typical Value
Steel Corrosion Protection, Distilled / Synthetic sea water	ASTM 665A/B	Pass/Pass
Copper Corrosion rating	ASTM D130	1a
Vane Pump Wear, mg	ASTM D7043	<5 mg
FZG Gear Load Capacity, failure load stage	ASTM D5182	12+
Demulsibility, minutes to <3ml emulsion	ASTM D1401	<30
RPVOT Oxidation Stability Test, minutes	ASTM D2272	200
Filterability, Dry (FI/FII)	ISO 13357-2	96 / 90
Filterability Wet (FI/FII)	ISO 13357-1	96 / 92

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