



PRODUCT DATA SHEET



NO-TOX BIOFR HYDRAULIC 46

No-Tox BioFR Hydraulic 46 is an HFD-U type fire resistant hydraulic fluid. It utilizes synthetic polyol ester type fire resistant hydraulic fluid designed for severe operating conditions in hydraulic applications where petroleum and other synthetic hydraulic fluids create a potentially unsafe environment and where a fire hazard exists. **No-Tox BioFR Hydraulic 46** maintains its fire resistant characteristics, providing extended safe service economically. **No-Tox BioFR Hydraulic 46** is NSF H1 registered and readily biodegradable.

Applications

- ◆ Where a food grade hydraulic fluid is required
- ◆ Where a fire resistant hydraulic fluid is required
- ◆ Where a biodegradable hydraulic fluid is required

Features and Benefits

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| ◆ NSF H1 registered | Use where incidental food contact may occur |
| ◆ FM approved fire resistant fluid | Protects life and property against fires, resisting the hazards of accidental ignition. |
| ◆ Biodegradable | Reduces environmental impact of leakage and spills. |
| ◆ High Viscosity Index | Maintains optimal viscosity through a wide range of temperatures for easy start up and maximum protection during normal operating temperatures. |
| ◆ Oxidation stability | Resistant to the formation of deposits extending safe service life of fire resistant properties. |
| ◆ Compatibility | A selection of balanced fluids and additives assures the highest degree of compatibility to component materials used in hydraulic systems minimizing failures. |

General Description

Formulated to work in high pressure hydraulic systems up to 7500 psi, **No-Tox BioFR Hydraulic 46** provides maximum component protection. The fluids have naturally high viscosity index and are shear stable, a significant advantage in modern sensitive equipment. It is designed for superior system reliability, reducing varnish and sludge formation in valves, pipes and reservoirs. **No-Tox BioFR Hydraulic 46** falls into the HFD-U Symbol (Fire resistant fluid other than phosphate ester) under ISO 6743-4 Standard. **No-Tox BioFR Hydraulic 46** is FM Approved fire resistant fluid. The FM approval identification is 0003062285.

Product No. 301919

NO-TOX BIOFR HYDRAULIC 46
TYPICAL PROPERTIES

<u>Product No.</u>	<u>301919</u>
<u>Old Product No.</u>	<u>65422</u>
ISO Viscosity Grade	46
Viscosity, ASTM D445	
@ 40°C, cSt	48.6
@ 100°C, cSt	9.64
Viscosity Index, ASTM D2270	188
Base Fluid Type	Synthetic Polyol Ester
Pour Point, ASTM D97, °C (°F)	-51 (-60)
Copper Strip Corrosion, ASTM D130	
3 hrs @ 100°C, rating	1a
Rust Test, ASTM D665, Procedure A	Pass
Demulsibility, ASTM D1401	
Oil/water/emulsion (time), ml/ml/ml (min)	41/36/3 (20)
4-Ball Wear Test, ASTM D4172	
@ 1200 rpm, 40 kg, 1 hr, 75°C	
Scar Diameter, mm	0.40
Flash Point, ASTM D92, °C (°F)	288 (550)
Fire Point, ASTM D92, °C (°F)	362 (684)
Biodegradability in 28 Days	
ASTM D5864 (OECD 301B), %	>70
Density, ASTM D4052, g/mL	0.9206
Color	Pale Yellow