

# BIOFLO FIRE-RESISTANT HYDRAULIC FLUIDS

## WHY USE A FIRE-RESISTANT HYDRAULIC FLUID?

Mineral oil-based hydraulic fluids are widely used because they offer proven, cost-effective performance. But mineral oil, derived from crude oil, is not fire resistant. **BioFlo HFDU and Synthetic HFDU** provide safer options that will not sacrifice performance. Both products are high-performance, environmentally responsible and Factory Mutual approved.

## FEATURES & BENEFITS

	HFDU	SYNTHETIC HFDU
High performing, anti-wear hydraulic fluid for use in most applications	+	+
High flash point for combustion resistance and low degree of evaporation	600°F / 315°C	572°F / 300°C
Formulated with premium quality renewable and sustainable natural ester base stocks	+	
Formulated with premium quality biobased synthetic polyol esters (POE)		+
Compatible with existing equipment - easy change over from existing lubricants*	+	+
Minimally toxic - safer to use and less harmful to skin	+	+
Naturally high viscosity index for stability in a wide temperature range	+	+
Formulated with zinc free, ashless antiwear additive technologies	+	+
Readily biodegradable (≥60% OECD 301A-F/ASTM D7373 testing) within 28 days, mineral oil based products biodegrade only 15-35%	+	+
Factory Mutual (FM) Standard 6930 HFDU	+	+
USDA BioPreferred Program	+	+
Classified as Environmentally Acceptable Lubricants (EAL's) as per the EPA's 2013 U.S. Vessel General Permit (VGP)	+	+
ISO Grade	46, 68	46, 68

Available in pails, drums and totes.

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(888.246.2563)

Get the PDS or shop our full line of products

**bioblend.com**

\*Contact BioBlend for details

Hydraulic fluids often come in contact with hot materials and surfaces, adding significant risk in high-temperature situations. Hose breaks, leaks and even spills can lead to catastrophic results.

Choosing a fire-resistant hydraulic fluid makes good sense for safety, productivity and performance. Not all fire-resistant hydraulic fluids are created equal. **BioFlo HFDU** and **Synthetic HFDU** are compatible with most mineral oils and polyolester type hydraulic fluids, which makes switching less complicated\*.

\*Contact BioBlend for details

It's important to know that mineral oil hydraulic fluid combines three properties that make a fire more likely in the event of a leak, spill or hose break:

- 1) Low heat temperature
- 2) Low auto-ignition point
- 3) High heat of combustion

## APPLICATIONS

Any industry that uses high-pressure hydraulic systems where spills, leaks or ruptured lines could encounter an ignition source.

Examples: foundries, steel mills, construction, mining, marine, oil & gas, plant operations, and more.

## EXCEEDS CONVENTIONAL PRODUCTS IN:

- + **Viscosity Index** - Maintains stability when operational temperatures change
- + **Lubricity** - Retains film strength as operational temperatures increase
- + **Polarity** - Increased attraction to metal surfaces & defends against water washout
- + **Solvency** - Better protection against build-up during operation
- + **Flash Point** - Lower fire hazard when exposed to high temperature heat sources
- + **Dielectric Strength** - Higher protection against electrical conductivity

## WHY USE A FACTORY MUTUAL APPROVED PRODUCT?

- The products represent a low fire hazard
- It's use may not require additional automatic sprinkler protection
- FM Approval testing is considered among the most rigorous in the world
- Fire-resistant fluids can reduce the extent of damage and costs associated with an accidental ignition
- It certifies that the product is less flammable and hazardous than conventional mineral oil products

BioBlend BioFlo HFDU and Synthetic HFDU are Factory Mutual Approved under Standard 6930, Flammability Classification of Industrial Fluids, and is listed in the FM Approval Guide at [www.fmglobal.com](http://www.fmglobal.com).



Contact BioBlend to discuss your unique business challenges and to discover a sustainable solution that helps meet your ESG goals.

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