

DESCRIPTION

BioFlo Synthetic HFDU fire resistant hydraulic fluids are high performance, environmentally responsible lubricants formulated with synthetic polyol esters (POE). These esters are highly biobased and contain ashless additives to help extend equipment and fluid life. Their inherent high viscosity index and broad operating viscosity range provides natural lubricating efficiency. BioFlo Synthetic HFDU is approved by Factory Mutual (FM) for enhanced safety in applications with potential fire hazards. Including any high-pressure hydraulic systems where spills, leaks or ruptured lines could encounter an ignition source. These powerful fluids provide exceptional wear and corrosion protection and increased safety.

FEATURES & BENEFITS

- High performing, anti-wear hydraulic fluid for use in all applications
- High flash point for combustion resistance and low degree of evaporation
- Formulated with premium quality biobased synthetic polyol esters (POE)
- Minimally toxic
- Naturally high viscosity index for stability in a wide temperature range
- Formulated with zinc free, ashless anti-wear additive technologies

SUITABLE USES

Recommended for use in vane, gear and piston pump hydraulic systems that must meet the following approval specifications:

- Factory Mutual FM Standard 6930 – HFDU
- SS 15 54 34:2020Hydraulic fluids
- HFDU according to DIN 51 502, ISO 6743/4
- OECD 301B Readily Biodegradable

COMPATABILITY

Compatible Elastomers

- Buna N, Nitrile Butadiene, nitrile content >25% (NBR)
- Fluoroelastomers, Viton® (FKM2)
- Hydrogenated nitrile (HNBR)
- Polyurethane (AU)
- Polytetrafluoroethylene, Teflon® (PTFE)

Non-Compatible Elastomers

- EPDM (Ethylene propylene rubber) (EPR)

- Butyl (Isobutylene Isoprene) (IIR)
- Neoprene (Polychloroprene) (NP)

APPLICATION / TECHNICAL SUPPORT

- Follow recommendations provided in your equipment owner's manual
- Follow your organization's best practices for preparation, cleaning, conversion, application, and ongoing maintenance practices
- **Technical Support** - If you have further questions, please fill out contact form on bioblend.com and one of our team will contact you to review your question(s)

APPROVALS / CERTIFICATIONS

- eSyn Certified
- Factory Mutual FM Standard 6930 HFDU
- Classified as environmentally acceptable lubricants (EAL's) as per EPA standards for biodegradability, toxicity and bioaccumulation in aquatic environments

PACKAGE SIZES

- 5 Gal Pails
- 55 Gal Drums
- 275 Gal Totes

STORAGE

Keep in a cool, dry and well-ventilated place. Store in a properly labelled, original container. Containers which are opened must be carefully resealed and kept upright to prevent leakage. To help maintain product quality, do not store in heat or direct sunlight.

CAUTIONS

Ensure adequate ventilation. Do not breathe vapor/dust. Use personal protective equipment and avoid contact with skin, eyes, and clothing. Wash thoroughly after handling. See the safety data sheet (SDS) for emergency, proper handling, and disposal information.

AVAILABILITY

Worldwide

TYPICAL PROPERTIES

Technical Properties	ASTM Test Method	Syn HFDU 46	Syn HFDU 68
Product Code		BFSYNHFDU46	BFSYNHFDU68
ISO Grade		46	68
Appearance	Visual	Clear/Amber	Clear/Amber
Viscosity @40°C, cSt	ASTM D445	46	68
Viscosity @100°C, cSt	ASTM D445	10	13
Viscosity @20°C, cSt	ASTM D445	105	160
Density @ 15°C (59°F)	ASTM D1298	0.92	0.93
Viscosity Index (VI)	ASTM D2270	210	185
Performance Properties			
Pour Point °F (°C)	ASTM D97	-40 (-40)	-20 (-4)
Flash Point °F (°C)	ASTM D92	>572 (300)	>572 (300)
Fire Point °F (°C)	ASTM D92	>680 (360)	>680 (360)
Acid Number, mgKOH/g	ASTM D974	<1.0	<1.0
Foam Tendency, Seq.1 ml @ 25°C	ASTM D892	<50	<50
Air Release, minutes	ASTM D3427	5	8
FZG Load Stage	DIN 51354	12+	12+
Copper Corrosion	ASTM D130	1A	1A
Demulsibility, minutes to <3ml emulsion Rust	ASTM D1401	<15	<15
Readily Biodegradable (meaning>60%)		Pass	Pass
OECD 301B % in 28 day	OECD 301B	>75%	>80%
Bio-based Content %	ASTM D6866	>88%	>91%

The values quoted above are typical of normal production. They do not constitute a specification.

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APPROVALS / CERTIFICATIONS LOGOS

