

PRODUCT NAME

BioFlo Synthetic AW –Synthetic Anti-Wear Hydraulic Fluid

MANUFACTURER

BioBlend Renewable Resources, LLC.
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DESCRIPTION

BioFlo Synthetic AW is a fully synthetic, readily biodegradable, hydraulic fluid. It is designed to provide better performance in extreme temperatures and over extended periods of time. It offers high thermal and oxidative stability for extended drain intervals. Friction and wear of parts is minimized in industrial and mobile hydraulic systems. Readily available for delivery worldwide. Available in ISO grades 32, 46, 68.

FEATURES AND BENEFITS

- High thermal and oxidative stability for extended fluid life
- Anti-wear performance for longer parts life
- Wide operating temperature range in extreme cold and extreme heat
- Zinc Free – Reduced risk of corrosion of certain metals. Safer for use around bodies of water
- Readily biodegradable
- High lubricity

PACKAGING

- 5 Gallon Pails
- 55 Gallon Drums
- 275 Gallon Totes

SUITABLE USES

Any industry (construction, refuse, mining, dredging, marine, agriculture, oil & gas, plant operations, etc.) utilizing mobile or stationary hydraulically powered equipment, especially hydraulic systems where a release into the environment is possible or where a leak or spill could reach a waste stream. Performs exceptionally well in temperature extremes (both hot and cold).

STORAGE AND SHELF LIFE

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.

Shelf Life - Product shelf life is 24 months from date of packaging. In some cases product can last longer, please contact your BioBlend representative for proper testing and confirmation instructions.

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.

APPLICATION

- Follow recommendations provided in your equipment's owner's manual
- Follow your organization's manuals and/or best practices for preparation, cleaning, conversion, application and ongoing maintenance practices
- If you have further questions, please contact BioBlend Tech Services by filling out the contact us form on bioblend.com

AVAILABILITY

Worldwide.

TECHNICAL SERVICES

For additional information including the Safety Data Sheet (SDS), Frequently Asked Questions, and Glossary please visit bioblend.com.

APPROVALS AND CERTIFICATIONS

- Classified as Environmentally Acceptable Lubricants (EAL's) as per the EPA's guidance document that defines standards for Environmentally Acceptable Lubricants (EPA 800-R-11-002) and as required by EPA's 2013 U.S. Vessel General Permit (VGP)

TYPICAL PROPERTIES

Property	ASTM Test Method	Syn AW 32	Syn AW 46	Syn AW 68
Product Code		BF2100232	BF2100246	BF2100268
ISO Grade		32	46	68
Specific Gravity	ASTM D1298	0.87	0.87	0.89
Viscosity @40°C, cSt	ASTM D445	32	46	68
Viscosity @100°C, cSt	ASTM D445	6.3	8.7	11.2
Viscosity @-30°C, cSt	ASTM D445	3,500	3,628	3,174
Viscosity Index (VI)	ASTM D2270	>180	>180	>180
Pour Point °F (°C)	ASTM D97	-48 (-44)	-48 (-44)	-45 (-42)
Flash Point °F (°C)	ASTM D92	>590 (310)	>590 (310)	>570 (299)
FZG Load Stage	DIN 51354	12	12	12
Copper Corrosion	ASTM D4048	1A	1A	1A
Rust Test A & B	ASTM D665	Pass	Pass	Pass
Demulsibility 15 minutes	ASTM D1401	40-40-0	40-40-0	40-40-0
Dielectric Breakdown Voltage kV	ASTM D877	>45	>45	>45
Readily Biodegradable (meaning>60%)		Pass	Pass	Pass
OECD 301B % in 28 day	OECD 301B	>75	>75	>75
Minimally Toxic		Pass	Pass	Pass
Algae (EC 50), 72 hr, mg/L	OECD 201	>13,000 mg/L	>13,000 mg/L	>13,000 mg/L
Daphnia (EC 50), 48 hr, mg/L	OECD 202	>25,000 mg/L	>25,000 mg/L	>25,000 mg/L
Fish (LC 50), 96 hr, mg/L	OECD 203	>50,000 mg/L	>50,000 mg/L	>50,000 mg/L
Not Bioaccumulative (Calculated value as per EPA standard)		Pass	Pass	Pass

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

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