

DESCRIPTION

BioFlo Synthetic AW is a fully synthetic, readily biodegradable, hydraulic HEES (Hydraulic Environmental Ester Synthetic) fluid designed to provide excellent 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.

FEATURES & BENEFITS

- Full synthetic HEES fluid
- 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

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 including hot and cold.

Meets the following specifications:

- DIN 51524 - Part 2 and 3
- Parker Denison HF-1, HF-2, HF-6
- Swedish Standard SS 15 54 34
- 35VQ25 Eaton Vickers Vane Pump
- DIN ISO 15380
- VDMA 24568

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
- 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)

PACKAGE SIZES

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

STORAGE

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 (safety glasses, gloves, etc.) 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	Test Method	SYN AW 15	SYN AW 22	SYN AW 32	SYN AW 46	SYN AW LT	SYN AW 68
Product Code		BFSYNAW15	BFSYNAW22	BFSYNAW32	BFSYNAW46	BFSYNAW46LT	BFSYNAW68
ISO Grade		15	22	32	46	46	68
Specific Gravity	ASTM D1298	0.939	0.939	0.941	0.941	0.941	0.940
Viscosity @40°C, cSt	ASTM D445	15	22	32	46	46	68
Viscosity @100°C, cSt	ASTM D445	4.1	5.2	6.8	9.0	9.0	12.2
Viscosity @-30°C, cSt	ASTM D445	531	1136	2200	3672	3300	9495
Viscosity Index (VI)	ASTM D2270	180	180	180	180	180	180
Performance Properties							
Pour Point °F (°C)	ASTM D97	-54 (-48)	-54 (-48)	-48 (-44)	-48 (-44)	-68 (-56)	-45 (-42)
Flash Point °F (°C)	ASTM D92	>450 (231)	>450 (231)	>450 (231)	>450 (231)	464 (240)	>450 (231)
FZG Load Stage	DIN 51354	12	12	12	12	12	12
Copper Corrosion	ASTM D4048	1A	1A	1A	1A	1A	1A
Rust Test A & B	ASTM D665	Pass	Pass	Pass	Pass	Pass	Pass
Demulsibility 15 minutes	ASTM D1401	40-40-0	40-40-0	40-40-0	40-40-0	40-40-0	40-40-0
Dielectric Breakdown Voltage kV	ASTM D877	>40	>40	>45	>45	>45	>45
Readily Biodegradable (meaning>60%)		Pass	Pass	Pass	Pass	Pass	Pass
OECD 301B % in 28 days	OECD 301B	>75	>75	>75	>75	>75	>75
Minimally Toxic		Pass	Pass	Pass	Pass	Pass	Pass
Algae (EC 50), 72 hr, mg/L	OECD 201	>13000	>13000	>13,000	>13,000	>13,000	>13,000
Daphnia (EC 50), 48 hr, mg/L	OECD 202	>25000	>25000	>25,000	>25,000	>25,000	>25,000
Fish (LC 50), 96 hr, mg/L	OECD 203	>50000	>50000	>50,000	>50,000	>50,000	>50,000
Not Bioaccumulative (Calculated value as per EPA standard)		Pass	Pass	Pass	Pass	Pass	Pass

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

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APPROVAL/CERTIFICATION LOGOS
