

Overview ▶ BioFlo AW Hydraulic Fluids are readily biodegradable, zinc-free, anti-wear hydraulic oils formulated from renewable base stocks to meet the performance requirements of mobile and industrial hydraulic systems. These high lubricity base oils are paired with environmentally friendly additive technologies to minimize ecological impact. These lubricants offer excellent thermal and oxidative stability, assuring superior service life with minimal viscosity change over a broad range of operating temperatures. BioFlo AW fluids are suitable for use in all conventional hydraulic systems, especially environmentally sensitive applications. Available as a sheen-free product upon request.



BioFlo AW fluids are formulated featuring our proprietary **eSyn™** technology and are available in ISO 32, 46, and 68.

Typical Properties ▼

PROPERTY	ASTM TEST METHOD	AW 32	AW 46	AW 68
Product Code		BF2100032	BF2100046	BF2100068
ISO Grade		32	46	68
Specific Gravity	D-1298	.913	.913	.913
Viscosity D445 @40°C, cSt	D-445	32	46	68
Viscosity D445 @100°C, cSt	D-445	7	10	14
Viscosity Index	D-2270	>188	>200	>200
Flash Point, °F (°C)	D-92	>325 (163)	>500 (260)	>500 (260)
Pour Point, °F (°C)	D-97	-33 (-36)	-22 (-30)	-22 (-30)
FZG Load Stage, DIN 51354		11	11	11
Copper Corrosion	D-4048	1A	1A	1A
Rust Test, A&B	D-665	Pass	Pass	Pass
4 Ball Wear	D-4172	<0.50	<0.50	<0.50
Dielectric Breakdown Voltage, kV	D-877	>45	>45	>45
Biodegradability % (meaning>60%)		Pass	Pass	Pass
OECD 301B, %		>76	>78	>71
Minimally Toxic		Pass	Pass	Pass
OECD 201 - Algae (EC 50), 72 hr, mg/L		>20,000 mg/L	>18,000 mg/L	>38,000 mg/L
OECD 202 - Daphnia (EC 50), 48 hr, mg/L		>5,500 mg/L	>3,700 mg/L	>13,000 mg/L
OECD 203 - Fish (LC 50), 96 hr, mg/L		>34,000 mg/L	>50,000 mg/L	>40,000 mg/L
Not Bioaccumulative* (*Calculated value as per EPA standard)		Pass	Pass	Pass
Bio-based Content, ASTM D6866, %		>86	>99	>96

Key Attributes / Approvals ▶



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.

- USDA BioPreferred Program
- 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)

See the Safety Data Sheet (SDS) for emergency, proper handling and disposal information.

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