

HonuBio AW

(Anti-Wear Hydraulic Fluid)



Next Generation Sustainable Lubrication Technologies

PRODUCT NAME

HonuBio AW (Anti-Wear Hydraulic Fluid)

MANUFACTURER

Honu Eco Sustainable Solutions, Inc.
200 Mayfly Way
Simpsonville, South Carolina 29680

DESCRIPTION

HonuBio 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. High lubricity base oils are paired with environmentally responsible additive technologies to maximize performance and 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. HonuBio AW Hydraulic fluids are suitable for use in all conventional hydraulic systems, especially environmentally sensitive applications.

FEATURES AND BENEFITS

- Zinc Free – Reduced risk of corrosion of certain metals. Safer for use around bodies of water
- Readily Biodegradable
- High viscosity index (VI) - Excellent thermal and oxidative stability
- Classified as Environmentally Acceptable Lubricant's (EAL's) as per EPA's 2013 U.S. Vessel General Permit (VGP) guidelines
- USDA BioPreferred – Contains 89% or greater biobased materials
- Excellent solvency – Reduces deposits and varnish
- Sheen free available

PACKAGING

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

SUITABLE USES

Any industry utilizing threaded compounds where a release into the environment is possible.

COMPATIBILITY

Equipment Compatibility

- Any mobile or stationary equipment calling for anti-wear hydraulic oil

Lubricant Compatibility

- Compatible with most other types of lubricants (for specific applications and lubricants please contact your Honu Eco representative)

Seal & Paint Compatibility

- Compatible with most seals except seals with less than 30% Buna
- No known paint compatibility issues

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. Intentional misuse by concentrating and inhaling the product can be harmful or fatal.

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 Honu Eco Tech Services by filling out the contact us form on **honueco.com**

APPROVALS / 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) USDA BioPreferred Program – 89% or greater

AVAILABILITY

Worldwide.

Honu AW-HF

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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 Honu Eco representative for proper testing and confirmation instructions.

Typical Properties

Properties	ASTM Test Method	AW 32	AW 46	AW 68
Product Code		HEAWHF32	HEAWHF46	HEAWHF68
ISO Grade		32	46	68
Specific Gravity	D-1298	0.913	0.913	0.913
Viscosity @40°C, cSt	D-445	32	46	68
Viscosity @100°C, cSt	D-445	7	10	14
Viscosity Index	D-2270	>188	>200	>200
Flash Point °C	D92	163	260	260
Pour Point °C	D97	-36	-30	-30
FZG Load Stage, DIN 51354		11	11	11
Copper Corrosion	ASTM D4048	1A	1A	1A
Rust Test, A&B	D665	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
Algae (EC 50), 72 hr, mg/L	OECD 201	>20,000 mg/L	>18,000 mg/L	>38,000 mg/L
Daphnia (EC 50), 48 hr	OECD 202	>5,500 mg/L	>3,700 mg/L	>13,000 mg/L
Fish (LC 50), 96 hr, mg/L	OECD 203	>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

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