

BIOHYDRAN AW



LUBRICATION



Biodegradable, high-viscosity index anti-wear hydraulic oil

APPLICATIONS

Environmentally Friendly Hydraulic fluids.

- **BIOHYDRAN AW** is a high performance, biodegradable, anti-wear hydraulic fluid series. It has been designed for hydraulic applications operating in environmentally sensitive areas. These fluids protect the environment from damage when accidental discharges occur.
- **BIOHYDRAN AW** hydraulic fluids provide excellent anti-wear protection for high pressure, high speed hydraulic pumps. They are formulated from specially selected vegetable base stocks and non-toxic additives. They exhibit 95% biodegradability after 21 days in the industry recognized CEC-L-33-A-94 biodegradability test. **BIOHYDRAN AW** fluids also satisfy the German Hygiene Institute's non-contamination class (WGK 0) for biodegradable lubricants.

SPECIFICATIONS

International and OEM specifications

- DENNISON HF-0
- CEC-L-33-A-94 BIODEGRADABILITY TEST
- GERMAN HYGIENE INSTITUTE - WGK 0
- VICKERS 35VQ25 and V104C

ADVANTAGES

Long equipment life and high operating reliability.

- Excellent anti-wear properties.
- Resistance to hydrolysis and oxidation.
- Inert towards metals (non-staining and no corrosive wear).
- Good compatibility with elastomers and seals.
- Excellent water/oil demulsification properties.
- Excellent anti-foaming, anti-corrosion, and anti-oxidation properties.

TYPICAL PROPERTIES—BIOHYDRAN AW

ISO grade	32	46	68
Viscosity at 40°C, cSt, ASTM D 445	32	46	64
Viscosity at 100°C, cSt, ASTM D 445	8	10.8	14.5
Viscosity Index, ASTM D 2270	219	237	240
Density @ 60°F, lbs. /gal. ASTM D 1298	7.60	7.69	7.67
Specific Gravity @ 60/60°F ASTM D 1298	0.913	0.924	0.921
Pour Point, °C ASTM D 97	-10 (-23)	-30 (-34)	-25 (-32)
Flash Point, COC, °F ASTM D 92	545 (285)	565 (296)	550 (288)
4 Ball Wear Test, scar diameter mm ASTM D 2266	0.34	0.34	0.34
Biodegradability, % 21 days (CEC-L-33A-94)	95	95	95

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This lubricant must be applied as recommended and used for the application for which it was designed. TOTAL Specialties USA, Inc. will have no responsibility for any injury to persons or property resulting from misuse or misapplication of the lubricant. A safety data sheet conforming to the OSHA Hazard Communication Standard 29 CFR Section 1910.1200 can be downloaded at www.totalspecialties.com. Copyright 2016 All rights reserved.