

PRODUCT DATA SHEET

Hydraulic Oil AW Anti-Oxidation, Anti-Wear, Anti- Foam, Anti-Rust

Description:

Hydraulic Oil AW is formulated with refined paraffinic base oils. They provide excellent anti-wear protection, oxidation and corrosion inhibition, as well as foam and aeration suppression. All grades have excellent demulsibility characteristics.

Benefits:

- Rust and corrosion protection.
- Minimum viscosity change over a wide temperature range.
- Good anti-wear performance reducing down time.
- Resistance to oxidation to extend oil service life.
- Anti-foam property to prevent loss of hydraulic power.
- Good water separation to prevent rust to prolong equipment life.

Application:

ISO 32, 46, 68 and 100 is suitable for use in hydraulic systems where the manufacturer recommends anti-wear with proven rust, oxidation, corrosion and foam inhibitors, & fluids with excellent filterability with hydrolytic and demulsibility stability. Also, intended for use predominantly in hydrostatic drive systems in which high thermal stresses occur, where corrosion is expected. They are also most commonly used for hydraulics with vane-, piston-, or gear-type pumps, especially where pressures exceed 1000 psi and in both internal and external hydraulic systems with pressure > 100 bar.

Typical Characteristic:

PARAMETERS	UNIT	Specification				TEST METHODS
		32	46	68	100	
Kinematic Viscosity @ 40°C	mm ² /s	29 – 35	43 – 49	64 – 72	90 - 105	ASTM D7042
Viscosity Index	-	Min. 95				ASTM D2270
Demulsibility	mins	40-37-3 (Max. 30)				ASTM D1401
Flash Point	°C	Min. 210				ASTM D93
Foaming Seq I	mL/mL	Max. 100				ASTM D892
Pour Point	°C	Max. -5				ASTM D97

Suitable for use in the following applications:

AFNOR E 48-603
AFNOR NFE 48-690 (dry)
AFNOR NFE 48-691 (wet)
AIST 126, 127
ANSI/AGMA 9005-E02-RO
ASTM D6158 (HM, HV)
B.F. Goodrich 0152
Bosch Rexroth RE 90220
Cincinnati Machine P-68, P-69, P-70
Cincinnati Milacron P-68, P-69, P-70
Denison HF-1, HF-2, HF-0
DIN 51506, VDL (lower grades)
DIN 51524, Part 2, 3
Eaton Vickers I-286-S and M-2950-S
Ford M-6C32
General Motors LH-03-1/04-1/06-1/15-1
GM LS-2
ISO 11158 (HM, HV)
JCMAS P041 HK Hydraulic specification
Jeffrey No. 87
Lee-Norse 100-1
MAG P68, P69, P70 (HM, HV)
Parker HF-0, HF-1, HF-2 (HM, HV)
Racine, variable volume vane pumps
SAE MS 1004 (HM, HV)
SEB 181222
Sauer Danfoss
U.S. Steel 127, 136
Vickers I-286-S, M-2950-S

Safety Information

In line with safe handling practices, it is recommended that the handling instructions outlined in the Safety Data Sheet be followed. Store in a cool, dry, well ventilated area out of direct sunlight. Avoid sparks, flames and other ignition sources. Store away from incompatible materials such as materials that support combustion (oxidizing materials).

New or used material must not be allowed to enter the ground, ground water, water courses, sewers or drainage systems. Advice may be sought from the Environmental Protection Authority or from the local waste disposal authority.