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Product Information

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UNIVERSAL NON-FOAM HYDRAULIC OIL AW

Product Description

Universal Non-Foam Hydraulic Oil AW is a zinc containing, anti-wear hydraulic oil. The product provides protection against wear, rust, corrosion, and foaming, thermal breakdown and exhibits excellent water separation and filterability properties.

Applications

Universal Non-Foam Hydraulic Oil AW meets the requirements of both high and low-pressure industrial and mobile hydraulic systems.

Universal Non-Foam Hydraulic Oil AW ISO Grades 15, 100, 150, 220 and 460 meet or exceed the requirements for industrial and mobile equipment hydraulic systems, which call for:

- Vickers I-286-S, M-2950-S
- Racine Model S, variable vane pump
- DIN 51524, Part 2
- Ford M-6C32
- B.F. Goodrich 0152
- Denison HF-1, HF-2, HF-0 (including T-6C)
- Rexroth
- Cincinnati Machine P-68, P-69 P-70
- Lee-Norse 100-1
- U.S. Steel 136, 127
- Commercial Hydraulics
- AFNOR E 48-603
- General Motors LS-2, LH-04-1, LH-06-1, LH-15-1

Universal Non-Foam Hydraulic Oil AW ISO Grades 32, 46 and 68 meet or exceed the requirements for industrial and mobile equipment hydraulic systems, which call for:

- Vickers I-286-S
- Cincinnati Machine P-68, P-69, P-70
- Racine Model S, variable pump
- Denison HF-1, HF-2, HF-0 (including T-6C)

Benefits

- Anti-Foam: Good air release properties.
- Anti-Wear: Provides excellent wear protection.
- Anti-Rust: Protects against rust and corrosion on steel and copper.
- Oxidation Stability: 2000 – 4000 hours, ASTM D 943
- Low Temperature Fluidity: Extends the useful temperature operating range.
- Water Separation (Demulsibility): Separates easily from water to minimize rust, filter blockage, and oil fluidity changes.

Refer to Universal Oil's Material Safety Data Sheet (MSDS) **16-19-01** for additional information.

UNIVERSAL NON-FOAM HYDRAULIC OIL AW

Specifications

Typical Property	ASTM Test Method	AW 15	AW 32	AW 46	AW 68	AW 100	AW 150	AW 220	AW 460
ISO Viscosity Grade		15	32	46	68	100	150	220	460
Gravity, Deg. API	D287	34.0	32.6	31.8	31.6	29.9	29.0	28.4	27.0
Pounds Per Gallon		7.11	7.18	7.22	7.22	7.30	7.34	7.37	7.43
Viscosity									
@ 40° C, cSt	D445	15.0	30.4	43.7	64.6	100	145	218	482
@ 100° C, cSt	D445	3.4	5.2	6.5	8.4	11	14.2	18.3	30.6
@ 100° F, SUS	D2161	77.4	157	225	334	528	715	1175	2585
@ 210° F, SUS	D2161	37.1	44	48	55	65	73	97	155
Viscosity Index, Min.	D2270	95	98	98	99	96	96	96	96
Pour Point, Degrees F	D97	-29°	-27°	-22°	-22°	0°	0°	+5°	+5°
Flash Point, Degrees F Min.	D 92	340°	425°	435°	455°	500°	500°	500°	500°
Oxidation Stability	D 943	----	>2000	>2000	>2000	>4000	>4000	>3500	>3500
Demulsibility	D1401								
ML: Oil: Water: Cuff		----	40-40-0	40-40-0	40-40-0	40-40-0	40-40-0	40-40-0	40-40-0
(Min)		----	(15)	(15)	(15)	(15)	(15)	(15)	(15)
UO Item		16-19-10	16-19-03	16-19-04	16-19-05	16-19-06	16-19-07	16-19-08	16-19-09
MSDS Number		16-19-01	16-19-01	16-19-01	16-19-01	16-19-01	16-19-01	16-19-01	16-19-01

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