



Premium Performance AW Hydraulic Fluids

ISO VG 32 through ISO VG 150

Premium Performance AW Hydraulic Fluids

Benefits:

- Superior rust protection
- Anti-foam protection
- Good low temperature flow properties
- Outstanding antiwear protection to pumps, motors, valves and other critical hydraulic components
- Superb hydrolytic stability in the presence of water - will not contribute to the formation of corrosive reactants or metal etching acids.

Specific applications include:

- machine tools and presses
- mobile construction equipment
- air compressors
- speed reducers
- winches
- steering gears

Mixing with incompatible chemicals may be hazardous. This product is for industrial use only. Safety data sheets are available upon request. No warranties expressed or implied including patent warranties or warranties of merchantability or fitness for a particular purpose are made by American Refining Group, Inc. with respect to products described or information set forth herein. Nothing contained herein shall constitute a permission or recommendation to practice any invention covered by a patent without a license from the owner of the patent.



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ISO Viscosity Grade	Test Method	32	46	68	100	150
API Gravity, 60°F	ASTM D-4052	30.9	31.2	29.6	29.8	29.0
Density, lbs/gal (g/L)	Calculated	7.255 (866)	7.244 (868)	7.33 (878)	7.31 (877)	7.35 (882)
Viscosity, cSt @ 40°C	ASTM D-445	32.0	46.0	68.0	100.0	150.0
Viscosity, cSt @ 100°C	ASTM D-445	5.3	6.9	8.9	11.3	15.0
Viscosity, SUS @ 100°F	ASTM D-2161	165	237	352	521	788
Viscosity, SUS @ 210°F	ASTM D-2161	44.0	49.3	55.9	65.4	76.1
Viscosity Index	ASTM D-2270	95	109	102	95	100
Pour Point, °F (°C)	ASTM D-5949	-30 (-33) (max)	-25 (-30) (max)	-25 (-30) (max)	-22 (-30)	-17 (-27)
Flash Point, °F (°C)	ASTM D-92	400 (204)	410 (210)	430 (220)	440 (226)	500 (260)
Color	ASTM D-1500	1.0	.5	.5	1.0	2.0
Rust Test	ASTM D-665 A&B	Pass	Pass	Pass	Pass	Pass
Oxidation Stability Performance, hrs.	ASTM D-943	3,000+	2,500+	2,000+	2,000+	2,000+
Cincinnati Machine		P-68	P-70	P-69	N/A	N/A
Product Code		7380	7381	7382	7384	7385

7380-Meets performance requirements of Denison HFO, Vickers M-2950-S, Cincinnati Machine P-68, DIN 51524 Part 2, I-286-S, ISO 11158 HM

7381-Meets performance requirements of Denison HF-0, Vickers M-2950-S, I-2950-S, I-286 S, Cincinnati Machine P-70, DIN 51524 Part 2, ISO 11158 HM

7382-Meets performance requirements of Denison HF-0, Vickers M-2950-S, I-286-S, Cincinnati Machine P-69, ISO 11158 HM

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