



Anti-Wear (AW) Hydraulic Oil

Product Description

Advanta brand Anti-wear (AW) Hydraulic Oils are premium quality lubricants combining superior additive technology with high VI **Group II base oils** that meet the performance characteristics required by all major hydraulic equipment manufacturers.

Developed for heavy duty hydraulic applications requiring high performance anti-wear and extreme pressure protection, Advanta AW Hydraulic Oils also provide outstanding thermal and hydrolytic stability for increased fluid life and reduced system downtime.

Features

- Manufactured with high quality hydrotreated, Group II base oils for improved oxidation resistance and longer service life
- Proven field performance
- Outstanding anti-wear performance
- Superior thermal, oxidative and hydrolytic stability
- Fully inhibited to protect equipment against rust and corrosion
- Good multi-metal compatibility - low copper activity
- Enhanced filterability to minimize blockage due to water contamination
- Rapid separation of oil and water – demulsibility
- Special antifoam agents to prevent air entrainment

Performance Credentials

When the correct viscosity grade is chosen, Advanta AW Hydraulic Oils meet the requirements of all major hydraulic pump manufacturers including:

- Parker (formerly Denison) HF-0, HF-1 (piston pumps), HF-2 (vane pumps)
- Fives P-68 (AW 32), P-69 (AW 68), P-70 (AW 46)
- Eaton Brochure 03-401-2010
- U.S. Steel 127, 136
- DIN 51524, Part 2
- AFNOR E 48-603
- Bosch Rexroth RD90220
- General Motors LS-2, LH-03, LH-04, LH-6
- Lee-Norse 100-1
- B.F. Goodrich 0152
Racine, variable volume vane pump

Application

- For use in all types of piston, gear and vane pumps used in industrial, mobile and marine systems.
- Recommended for use in equipment operating in high temperature and high humidity environments.

Typical Properties of ADVANTA AW Hydraulic Oil

Viscosity Grade	AW-22	AW-32	AW-46	AW-68	AW-100
Density (kg/L)	0.849	0.851	0.856	0.860	0.866
Kinematic Viscosity, cSt @ 40°C	22	32	46	68	100
@ 100°C	4.5	5.7	7.3	9.2	12.0
Viscosity Index	120	120	120	109	109
Flash Point (°C)	210	225	235	240	260
Pour Point (°C)	-50	-42	-36	-33	-27
TAN	0.32	0.32	0.32	0.32	0.32
Zinc, % mass	0.04	0.04	0.04	0.04	0.04
Rust (D665) A & B	Pass	Pass	Pass	Pass	Pass
4-Ball Wear (mm scar)	0.3	0.3	0.3	0.3	0.3
Oxidation Stability, TOST (hours)	5000+	5000+	5000+	5000+	5000+
Approximate Temperature Range, °C(°F)	-20 to 50 (-5 to 120)	-13 to 66 (10 to 150)	-8 to 75 (18 to 165)	-4 to 86 (25 to 187)	3 to 90 (37 to 194)

Values shown here are typical and may vary.
Always check manufacturers' recommendations when choosing lubricants