

TECHSELECT® PREMIUM AW HYDRAULIC OILS

Manufactured with highly refined base oils

DESCRIPTION: **TECHSELECT® Premium AW Hydraulic Oils** are premium-quality anti-wear hydraulic oils with excellent stability, designed to meet the most stringent requirements of most all major manufacturers and users of hydraulic equipment. These oils are characterized by outstanding rust protection, low deposit formation, good demulsibility, rapid release of entrained air, oxidation resistance, low pour points and good anti-foam properties. They also contain an effective anti-wear agent that helps reduce wear in high-speed, high-pressure vane and gear pumps. AW Hydraulic Oils are made from top quality base stocks and contain all the necessary additives.

APPLICATION: **TECHSELECT® Premium AW Hydraulic Oils** are recommended for use in vane, gear and piston pumps operated above 3000 psi. These anti-wear hydraulic oils are very effective in reducing vane and gear pump wear and greatly extend the life of systems operating at high loads, speeds and temperatures.

Meets the requirements of Parker (formerly Denison) HF-0, HF-1, HF-2, Eaton E-FDGN-TB002-E, Bosch Rexroth RDE 90235, DIN 51524 Part II (HM), ISO 11158 (HM), ASTM D6158, AIST 126, 127, SAE MS 1004 (HM), GM LS2, JCMAS P041 HK and SEB 181222. Passes Eaton 35VQ25 and V104C (ASTM D2882 and ISO 20763) vane pump tests and Denison T6H20C hybrid vane/piston pump test.

Suitable for use in applications which cite former or obsolete specifications such as Fives Cincinnati P-68, P-69, P-70 and Bosch Rexroth RDE 90220.

PERFORMANCE BENEFITS: **TECHSELECT® Premium AW Hydraulic Oils** are particularly well suited for all industrial and mobile hydraulic system applications. These products satisfy the requirements of major hydraulic equipment manufacturers and are suitable for all types of hydraulic pumps except for the very small number of pumps containing silver plated parts which still require non-zinc oils.

- Excellent wear protection- 7,000 hour minimum per ASTM D-943
- Rapid release of any entrained air
- Oxidation and thermal stability for long life
- Excellent rust and corrosion protection
- Easy filterability
- Non-Conductive (Note: Dielectric strength and conductivity value applies at “point of manufacture” of packaged product from AIOD manufacturing facility and will change if oil becomes contaminated with dirt or even a small amount of water)

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TYPICAL PROPERTIES±:

	32	46	68
SAE Viscosity Grade	10W	20W	20W
Specific Gravity	0.862	0.865	0.867
Flash Point Deg °F (°C)	411 (211)	444 (229)	465(241)
Pour Point Deg °C.	-40	-37	-36
Appearance	Light Pale	Light Pale	Light Pale
Viscosity			
@ 40 Deg. °C, cSt	32	46	68
@100 Deg. °C, cSt	6	7	9
@ 100 Deg. °F, SUS	151	214	316
@ 210 Deg. °F, SUS	152	216	318
Viscosity Index	109	110	110
Gravity, API	32.8	32.3	31.9
Non-Conductive, 25kV minimum	30*	30*	30*
Rust Test, ASTM D665	Pass	Pass	Pass
Oxidation ASTM D-943	7000	7000	7000

*Dielectric strength will decrease if the oil becomes contaminated with dirt or even a very small amount of water.

±Due to continual product research and development, the information contained herein is based on products purchased in the U.S. and subject to change without notification. Typical properties may vary slightly. Minor variations in product typical test data are to be expected in normal manufacturing.



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