



Champion Super Grade AW - R/O Hydraulic Oils

Champion Super Grade AW R&O Hydraulic Fluids are quality anti-wear hydraulic oils designed for use in modern, high-performance hydraulic components. These fluids are specifically suited to protect high pressure positive-displacement vane and piston pumps, as well as high-accuracy numerically controlled (NC) machine tools where an anti-wear hydraulic fluid is specified. The stabilized additive system in these products provide excellent filterability and provide superior resistance to oxidation, corrosion, wear, sludge, varnish, emulsification and foaming.

- Improved filterability for less downtime and better protection
- Excellent stability against oxidation and corrosion
- Low coefficient of friction for improved energy efficiency
- Thermally and hydrolytically stable anti-wear chemistry
- Premium OEM level protection

Champion Super Grade AW R&O Hydraulic Fluids meet or exceed the following performance specifications:

- Parker-Hannifin HF-0, HF-1, HF-2
- DIN 51524 part II
- Bosch Rexroth 90220
- ISO 20763
- ANSI/AGMA 9005-E02-RO
- AIST (US Steel) 126, 127
- Eaton M-2950-S, I-286-S3
- Cincinnati Machine P-68, P-69 & P-70
- ISO 11158 HH, HL, HM, HR
- JCMAS P041 HK
- GM LS-2
- SEB 181222

Typical Properties

ISO VG	32	46	68	100	150	220
Product	4245	4180	4181	4178	4212	4195
API Gravity	30.6	30.0	32.4	34.4	29.7	27.4
lbs/US Gallon	7.27	7.30	7.19	7.11	7.31	7.42
Specific Gravity	0.873	0.876	0.863	0.853	0.878	0.891
cSt @40°C	32	46	68	100	150	220
cSt @100°C	5.4	6.7	8.7	11.3	14.9	19.2
Viscosity Index	98	98	98	98	98	98

Champion Super Grade AW R&O Hydraulic Fluids have a 5,000 hour typical fluid life.