



# Champion Quantum Ashless - R/O Hydraulic Oils

Champion Quantum Ashless R&O series oils are extra long-life turbine oils formulated with severely hydrotreated and hydrofinished API Group II base oils for improved oxidation resistance, viscosity retention, and cold-flow properties. These oils demonstrate excellent protection against oxidation and corrosion, are more resistant to oxidative thickening, and keep parts cleaner than solvent-refined turbine oils, and have an extended operating life for reduced downtime and lower maintenance and disposal costs. Excellent for lubricating gas, steam and water turbines, low-load compressors and as extremely long-life heat transfer and circulating oils.

- Extended fluid life for longer service intervals
- Excellent filterability and cleanliness
- High thermal and oxidation stability
- Excellent demulsibility and air release
- Protects against corrosion
- Good cold-start protection
- Resists oxidative thickening

Champion Quantum Ashless R&O series turbine oils meet or exceed the following specifications:

- GE GEK32568, GEK 10795, GEK 46506
- Alstom HTGD 90 117
- Siemens TLV
- ISO 8068
- DIN 51515-1, Type HL
- AGMA 9005-E02-RO
- Parker HF-0 (bench tests only)
- Solar Turbined ES9-224
- MAG (CM) P-38, P-55, P-57
- Parker HF-1
- DIN 51524-1, Type HL
- DIN 51515-2
- AIST 125

<b>Typical Properties</b>						
ISO Grade	32	46	68	100	150	220
Product No	4321	4323	4322	4324	4325	4326
Kinematic Viscosity @ 40°C, cSt	32	46	68	100	150	220
Kinematic Viscosity @ 100°C, cSt	5.5	7.1	9.0	11.4	14.8	19.1
Viscosity Index	107	106	104	103	100	100
TOST (ASTM D943), hr	10,000+	10,000+	10,000+	10,000+	10,000+	10,000+
Flash Point, °F (min)	400	400	400	400	400	400