



Quantum

Hydraulic and R&O SERIES

CHAMPION QUANTUM series includes our anti-wear hydraulic and rust and oxidation fluids made from premium Group II base stocks in combination with advanced additive protection systems. Available in mono-grades (**Quantum** AW R&O), and multi-grades (**Quantum** All Season), these series provide the best protection for all vane, piston, gear hydraulic and compressor pumps. Recommended for surface mining cranes, shovels and walking cams hydraulic systems, cherry pickers, farm tractor implements, backhoes, loaders, hydraulic lifts and hydraulic systems on dump trucks, motor graders, bulldozers, and forklifts.

Features include:

- Extended fluid viscosity life
- Premium anti-wear and corrosion protection
- Exceptional thermal and oxidation stability
- Extended drain
- High viscosity index
- Low consumption
- Low pour points
- Universal compatibility

Quantum AW R&O and **Quantum** All Season series performance exceeds;

- Denison HF-0, HF-2 & T6-C20 vane test
- Cincinnati Machine P-68, P-69 & P-70
- Vickers I-286-S, M-2950-S, 35VQ25
- ISO 11158 HM & HV, ASTM D6158 Type HM
- AGMA 9005 R&O
- DIN 51 524 Part 2 (HLP) & Part 3 (HVLP)
- DIN 51 525 Hydraulic Oils Type H-LP
- AFNOR NF E 48-603 HM & HF
- John Deere JDQ84 (Saucer-Sundstrand)
- Robert Bosch Fluid Power
- Joy HO-T, HO-S, HO-T2
- MIL-H-17672D
- AISE (U.S. Steel) 126 & 127

Quantum R&O Turbine oils are ashless, zinc free, Group II based lubricants recommended for use where Cincinnati Machine P-38, P-55 and P-57, Denison HF-1, DIN 51524 Part 1, General Electric GEK-32568, Solar Turbines ES9-224, and/or Haggblunds-Denison bench test approvals are specified.

TYPICAL SPECIFICATION

ISO Grade	32	AS32	46	AS46	68	AS68	100	150	220
Product Code AW, R&O	4318	4266	4319	4267	4320	4268	4327	4329	-
MSDS #	1200	1200	1200	1200	1200	1200	1200	1200	-
Product Code Turbine R&O	4321	-	4323	-	4322	-	4324	4325	4326
MSDS #	900	-	900	-	900	-	900	900	900
Gravity API @ 60° F	32.3	32.7	31.4	32.4	30.6	32.4	30.2	29.2	29.2
cSt @ 40°C	32.8	31.7	46.8	45.8	69.0	67.2	97.4	146.6	217.0
cSt @ 100°C	5.6	6.9	7.1	8.5	9.0	11.5	11.4	14.8	19.1
SUS @ 104°F	154	149	268	208	320	313	451	679	1006
SUS @ 212°F	44.5	49.0	49.5	54.0	56.0	64.0	64.0	77.0	94.7
Viscosity Index	107	185	106	165	104	165	103	100	100
Pour Point ° F	-28	-40	-26	-40	-26	-40	-13	-13	-13
Flash Point ° F	387	410	385	410	425	415	440	450	450
Dielectric Strength, D-877, kV	45	45	45	45	50	50	-	-	-

Call Our Friendly Sales Representatives for Available Package Sizes

4266 4267 4268 4318 4319 4320 4321 4322
 4323 4324 4325 4326 4327 4329

EFFECTIVE 03/08

CHAMPION BRANDS, L.L.C. • 1001 Golden Drive • Clinton, MO 64735
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