



UNIVERSAL R & O TURBINE OIL

Product Description **Universal Rust & Oxidation Turbine Oils** are premium, multi-purpose lubricants formulated to protect against rust and oxidation. The product exhibits good viscosity/temperature characteristics, low foaming and excellent water separation properties.

Applications **Universal R&O Turbine Oils** are recommended for both gas and steam turbines; for hydraulic systems using piston or gear type pumps; for vacuum pumps; as a high quality circulating oil; as a general purpose machine oil; as an R&O gear oil where EP properties are not required; and for reciprocating air compressors.

Universal R&O Turbine Oil meets or exceeds the requirements for industrial equipment which call for:

- Cincinnati Machine P-38, P-45, P-54, P-55, P-57, P-62
- DIN 51524 Part 1
- AFNOR E-48600 HL
- Denison HF-1
- US Steel 126
- MIL-H-17672D

- Benefits**
- Outstanding oxidation & thermal stability
 - Low copper activity
 - Extra long service life
 - No deleterious effect on demulsibility
 - Excellent rust protection
 - Low temperature fluidity; extends useful operating range
 - Good Hydrolytic Stability

Specifications

Typical Property	ASTM Test Method	Typical Results								
		22	32	46	68	100	150	220	320	
ISO Viscosity Grade										
Gravity, Deg API	D 287	33.0	30.2	29.4	28.5	28.4	28.4	28.4	26.3	
Viscosity										
@ 40°C, cSt	D 445	21	31	45	67	98	148	218	320	
@ 100°C, cSt	D 445	5.2	6.3	6.6	8.9	11.0	14.0	18.3	23.1	
Viscosity Index, Min	D 2270	95	95	95	95	94	94	94	91	
Pour Point, F	D 97	-29°	-29°	-10°	-10°	0°	0°	+5°	+15	
Flash Point, F min.	D 92	400°	415°	425°	465°	500°	500°	500°	500°	
AGMA R&O Number		----	0	1	2	3	4	5	6	
Rust Test	D 665A	----	Pass	Pass	Pass	----	----	----	----	
Oxidation	D 943	5000+	5000+	5000+	5000+	4000+	4000+	3500+	3500+	
UO Item Number		16-19-13	16-19-14	16-19-15	16-19-16	16-19-17	16-19-18	16-19-19	16-16-20	

Refer to Universal Oil's Material Safety Data Sheet (MSDS) 16-19-13 for additional information.