



Performance Biolubricants and Colloidal Cleaners

Turbine Rust and Oxidation Fluids ISO 32, 46, 68, 100

Turbine Rust and Oxidation (R & O) Fluids are Ultimately Biodegradable¹ vegetable based formulas that were designed specifically to replace mineral oil based turbine oils in environmentally sensitive hydroelectric (water) turbine bearings. These bearings are subject to humid/ moist conditions because of occasional seal leakage, but operate cooler than gas and steam turbine bearings. Turbine Fluids are formulated to perform in R & O systems that require anti-foam, anti-rust, anti-oxidation, and demulsibility properties. They are highly inhibited against moisture and rusting in both fresh and sea water and pass both A and B Sequences of the ASTM D-665 Turbine Oil Rust Test. The super high viscosity index of the base stock yields multi-grade synthetic performance. This super high viscosity index naturally improves the thermal shear stability of the formula and increases load capacity.

The formula also provides extremely low volatility with increased flash and fire safety. A zinc-free additive system has also been developed that is environmentally friendly and exceeds the load stage 10 in the FZG (DIN51354) requirements for both turbine oils and reduction gears. They also meet the requirements for an ashless GL-3 gear oil. Turbine R & O Fluids are formulated from renewable, non-GMO agricultural plant resources. We believe the Earth's environmental future rests in the use of renewable materials.

Typical Specifications

ISO Grade	32	46	68	100
API Gravity @ 60°F	30.4	30.0	28.1	27.3
Pounds/Gallon @ 60°F	7.28	7.30	7.38	7.42
Specific Gravity @60°F	.874	.876	.886	.891
VISCOSITIES:				
@100°C, cSt.	6.9	9.67	12.5	16.6
@40°C, cSt.	30.87	43.8	64.1	92.1
Viscosity Index	184	216	198	196
Flash Point, °C	236	243	270	280
Pour Point, °C	-40	-36	-30	-27
Copper Corrosion Strip 3hr @ 100°C	1A	1A	1A	1A
4 Ball Wear, 1h, 167°F, 1200 RPM, 40kg	.40	.40	.40	.40
FZG Test	12	12	12	12
Hydrolytic Stability, (D-2619)	Pass	Pass	Pass	Pass
Foam Sequence I, II, III (D-892)	Pass	Pass	Pass	Pass
Rust Prevention, (D-665)	Pass	Pass	Pass	Pass
Rotary Bomb Oxidation, (min)	250	250	250	250

This product is based on a proprietary and patented anti-oxidant, anti-wear, and cold flow technology. Base stocks are non-GMO agricultural vegetable oils. This stabilized technology provides high performance in high and low temperature applications, reducing oil thickening and deposits.

¹ Ultimate Biodegradation (Pw1) within 28 days in ASTM D-5864 Aerobic Aquatic Biodegradation of Lubricants.

To Order

Fax to 831-728-1753 or call 800-491-9473 for Customer Service
Visit www.wisesolutions.net or Email sales@wisesolutions.net

Available Size Container

5 gal. Pail	55 gal. Drum	330 gal. Tote

Quantity (min.)