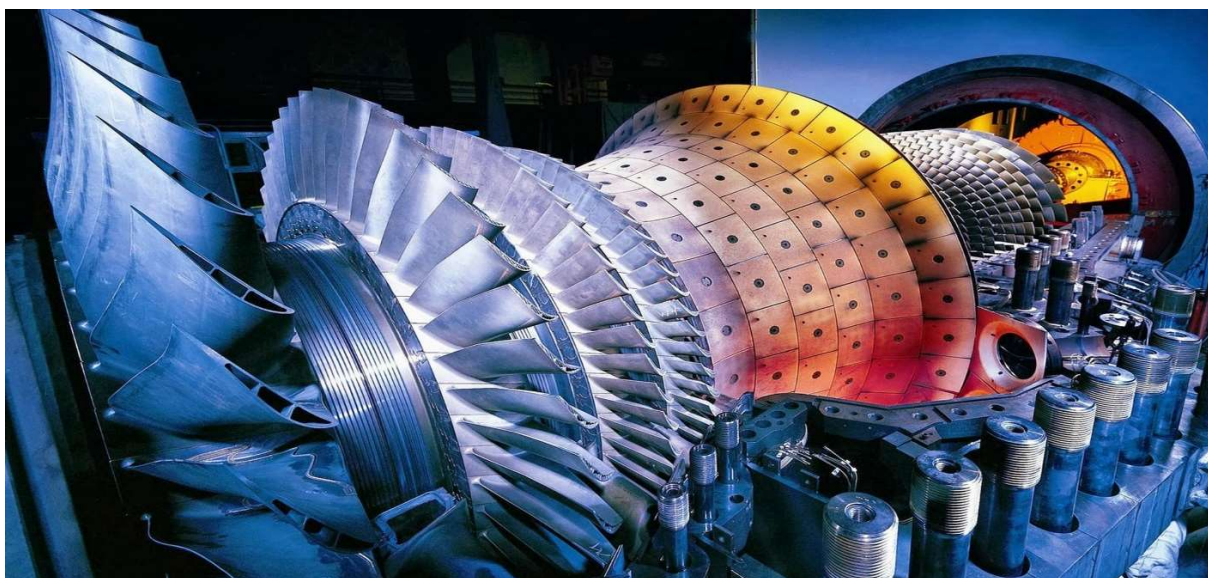


POWERMXX R&O TURBINE OIL

(Premium Quality Rust & Oxidation-Inhibited Turbine Oil)

(Long-Life, Rust & Oxidation Inhibited Turbine & Circulating Oil with Ashless, Zinc-Free and Non-Silicone Anti-Foam Inhibitors)



PRODUCT DESCRIPTION

R&O TURBINE OIL is a premium-quality turbine oil with rust and oxidation inhibited in steam, gas & hydroelectric turbines. It is manufactured from premium high refined & high viscosity index paraffinic base oil technology. It contains anti-oxidation, anti-corrosion, ashless, zinc-free and non-silicone anti-foam inhibitors to provide outstanding performance and protection in steam, gas & hydroelectric turbines. The oil has good water separating properties, high oxidation and thermal stability, first-rate anti-corrosion properties, and low carbon forming tendency at high temperatures to minimize deposit formation and provide long service life. It has outstanding oxidation resistance and stability. It has high-load carrying capacity and excellent affinity for metal surfaces to protect against wear. It has natural detergency for improved cleanliness; the oils have good oxidation control, anti rust & corrosion and anti wear properties and excellent hydraulic stability and anti foaming characteristics. It also has excellent low temperature properties for use over a wide temperature range.

APPLICATIONS

- Industrial & Marine non-geared gas turbine, hydroelectric, power generation steam turbines.
- Direct-drive Steam turbines not including GE Frame 7000.
- Air tools and other pneumatic equipment lubricated through airline lubricators
- Centrifugal and rotary air compressors
- Vacuum pumps, deep-well water pumps, and machine tools
- Bath, splash, circulating and systems, Gear sets calling for AGMA R&O oil
- Industrial & Marine bearings - Electric motor bearings, fan bearings, and blower bearings
- Industrial & Marine applications include: hoists, electric motor bearings, machine tools, etc.
- Lightly loaded enclosed gear drives where the OEM specifies a R&O type oil VG 32, 46, 68, 100
- **R&O TURBINE OIL**- 32, 46, 68 & 100 are excellent hydraulic fluids in low pressure systems up to 1000 psi.

FEATURES & BENEFITS - R&O Turbine oils deliver value through:

- **Long lubricant life** - Excellent oxidation resistance and thermal stability for long service life at elevated temperatures. Formulated with premium high refined & high viscosity index paraffinic base oil technology and an ashless, zinc-free formulation. High viscosity index helps ensure minimum viscosity change when variations in temperature occur.
- **Prolonged oil service life** - Superior oxidation stability provided by the multi-component inhibitor system resists oil breakdown during exposure to high temperature conditions for longer service life.
- **Excellent water-separating properties demulsibility** - helps ensure good lubricant film strength and minimal wear through quick water separation.
- **Excellent air release** - Fast air release minimizes deposit formation in turbine oil reservoir systems by the foam inhibitor hastening the release of foam and entrained air. Minimum foam helps prevent sump overflow or erratic governor operation.
- **Rust & Corrosion protection** – Excellent rust and corrosion protection of metal surfaces due to the use of an effective rust inhibitor protects components against corrosion.
- **Environmental benefits** - All grades are zinc-free & ashless. This facilitates reclaiming and recycling of the used oils.
- **Resists degradation** - The good oxidation stability provided by the multi-component inhibitor system resists oil breakdown during exposure to high temperature conditions.
- **Potential maintenance and downtime savings** - The highly refined base stocks and multi-component oxidation inhibitor system resist the formation of harmful sludge and varnish deposits and low carbon-forming tendency for use in air compressors.
- **Smooth operation** - The good water separability of the highly refined base stocks and inhibitor system ensure rapid settling of harmful water accumulated from steam condensate. The non-silicone foam inhibitor allows rapid release of entrained air while minimizing foam formation.

PROPERTIES

ISO Grade	32	46	68	100
Appearance	C & B	C & B	C & B	C & B
Density,@15°C	0.865	0.872	0.878	0.882
Viscosity @100°C cSt	5.3	6.9	8.7	11.2
Viscosity @40°C cSt	30.6	45.9	68.1	100
Viscosity Index	108	108	115	115
Flash Point	222	228	245	254
Pour Point	-27	-27	-24	-24
TAN (Total Acid Number)	0.13	0.13	0.16	0.16
Foam Sequence I, II, III	0,0	0,0	0,0	0,0
Copper Strip Corrosion	1A	1A	1A	1A
Rust Control	Pass	Pass	Pass	Pass
Foam Tendency/Stability ml @ 75 °F	60/0	60/0	60/0	60/0
Water Demulsibility, in mins	15	15	15	15
Steam Demulsibility in seconds	153	153	153	153
Oxidation, hrs to Total Acid Number 2.0 mg KOH/g	+3000	+3000	+3000	+2500
Oxidation Stability Test TOST LIFE min in hrs	10000	10000	10000	10000
AL technology Zinc-Free for extra extended drain interval life in hrs	15000	15000	15000	15000
Distilled Water	Pass	Pass	Pass	Pass
Syn. Sea Water	Pass	Pass	Pass	Pass

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