

PRODUCT SPECIFICATIONS & TECHNICAL DATA

Premium Turbine and multi-purpose R&O inhibited circulating oils

PETROFLO R&O Turbine Oils are premium rust and oxidation inhibited oils with excellent water demulsibility, oxidation stability, and air release. Formulated with paraffinic base oils and a carefully balanced additive system, **PETROFLO R&O Turbine Oils** are designed for excellent for long life service.

PROPERTIES AND BENEFITS:

PETROFLO R&O Turbine Oils are available in viscosity grades from ISO VG 22 to ISO VG 460

- Excellent oxidation resistance
- Provides sludge and deposit control
- Rust and corrosion protection for all system components
- Excellent water separation and demulsibility
- Excellent anti-foam and rapid air release, Zinc-free formulation

APPLICATION:

Recommended for applications calling for rust and oxidation inhibited oils

- Gas, steam and hydraulic turbines
- Steam turbines except GE Frame 7000
- Hydraulic systems, Air compressors, Industrial bearings, Circulating systems
- A myriad of assorted industrial applications: hoists, electric motor bearings, machine tools, etc.
- Gear sets calling for AGMA R&O oil
- Bath, splash, circulating or mist systems

RECOMMENDATIONS / SPECIFICATIONS

PETROFLO R&O Turbine Oils meet the performance requirements of:

- *AGMA R&O Gear Oils 1,2, 3, 4, 5, 6,7*
- *General Electric GEK 28143A*
- *Alstom Power HTGD 90 117 V0001R and NBA P5001*
- *MAG Cincinnati, Cincinnati Machine P-38 (ISO 32), P-54 (ISO 68), P-57 (ISO 150)*
- *Mitsubishi Heavy Industries E00-87182*
- *Denison HF-i*
- *MIL-H 1 7672D (ISO VG 32, 46, 68)*
- *Siemens TLV 9013 04/01*
- *Westinghouse 21 T0591*
- *Solar Turbines ES 9-224U*
- *ISO 8068*
- *ASTM D 4304, Type I (non-EP)*



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TYPICAL CHARACTERISTICS

| PETROFLO R&O Turbine Oils | | | | | | | | | | |
|---|-----------------------|---------------------|-----------|-----------|-----------|-----------|---------|-----------|-----------|-----------|
| Property | Test Method ASTM-D | ISO Viscosity Grade | | | | | | | | |
| | | 22 | 32 | 46 | 68 | 100 | 150 | 220 | 320 | 460 |
| AGMA Grade | | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| Gravity°API | 1298 | 33 | 32 | 31 | 30 | 29 | 29 | 28 | 27 | 26 |
| Flash Point, COC °C/°F | 92 | 210 (410) | 232 (450) | 238 (460) | 243 (469) | 268 (514) | 277/531 | 285 (545) | 304 (579) | 307 (585) |
| Pour Point, °C/°F | 97 | -40 (-40) | -40 (-40) | -40 (-40) | -34 (-29) | -34 (-29) | -17 (1) | -15/-5 | -15/-5 | -15/-5 |
| Viscosity | | | | | | | | | | |
| cSt@40°C | 445 | 22 | 32 | 46 | 68 | 100 | 150 | 220 | 320 | 464 |
| cSt@ 100°C | 445 | 4.3 | 5.3 | 6.7 | 8.7 | 11.3 | 15.2 | 18.8 | 24 | 30.6 |
| Viscosity Index | 2270 | 102 | 105 | 105 | 104 | 95 | 97 | 95 | 96 | 95 |
| Color | 1500 | 1.0 | 1.5 | 1.0 | 2.0 | 3.0 | 3.0 | 4.5 | 4.5 | 4.5 |
| Oxidation Life Hrs to 2.0 Acid No. | 943 | 5000+ | 5000+ | 5000+ | 5000+ | 5000+ | 5000+ | 5000+ | 5000+ | 5000+ |
| Foam Tendency/Stability ml @75 °F | 892 | 60/0 | 60/0 | 60/0 | 60/0 | 60/0 | 60/0 | 60/0 | 60/0 | 60/0 |

Typical test data are average values only.

Minor variations which do not affect product performance are to be expected during normal manufacturing.