



DURAGARD® IS A REGISTERED TM OF ADVANTAGE DIST. LLC, ROCH., MN 55904 Product Code: DURROT46

DURAGARD®

INDUSTRIAL R&O TURBINE 46 CIRCULATING OIL

ADVANCED TECHNOLOGY, PREMIUM LUBRICANTS

DURAGARD® Industrial R&O Turbine 46 Circulating Oil is a premium quality oil formulated with ultra refined paraffinic base oils designed to meet the requirements of Steam Turbines, and Gas Turbines. It has a robust additive package that helps to eliminate the formation of varnish and sludge, and possesses unsurpassed rust and corrosion protection, and due to the high quality blend, a film strength that simply cannot be achieved using conventional mineral base oils.

DURAGARD® Industrial R&O Turbine 46 Circulating Oil has excellent class leading thermal stability, efficient & effective operation over a wide range of temperatures, promotes extended equipment life, and it has outstanding resistance to oxidation related to extended run time. It readily separates from water and has extraordinary resistance to foaming and provides for reduced water contamination in Gas & Steam powered Turbines. It is highly recommended for applications calling for rust and oxidation inhibited turbine type circulating oils.

Customer Benefits with *DURAGARD® DIAMOND PLATE PROTECTION®*

- * Exceptional protection against wear from contaminants and higher operating temperatures and pressures ensures longer equipment life.
- * Maintains viscosity, even under higher operating temperatures, and has sufficient reserve of key additives, resulting in longer fluid life and reduced operating costs.
- * Reduced foaming ensures smooth, efficient operation and proper lubrication of all parts in the system.

DURAGARD® Industrial R&O Turbine 46 Circulating Oil

This product meets, or exceeds the requirements similar to the following manufacturers and global specifications:

Cincinnati Machine/Milacron P-55
Denison HF-1
DIN 51524, Part 1
Alstom HTGD 90117
General Electric GEK-32568F, GEK107395
Solar Turbines ES 9-224

DIN 51515
U.S. Steel 126
MIL-L-17672C
AFNOR E-48600 HL
British Standard 489

Product Containers Available:

Bulk * 55 gal. * 30 gal. * 5 gal. pails * 2.5 gal/2pk * 1 gal/4pk

Typical Physical Specifications:

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| INSPECTION INFORMATION | TEST METHOD | TYPICAL VALUE |
|---------------------------------|-------------|-----------------|
| Gravity API | ASTM D287 | 32.65 |
| Specific Gravity @60°F (15.6°C) | ASTM D4052 | 0.862 |
| Viscosity @ 40°C cSt | ASTM D445 | 46.65 |
| Viscosity @ 100°C cSt | ASTM D445 | 6.96 |
| Viscosity Index | ASTM D2270 | 106 |
| Pour Point °C (°F) | ASTM D5950 | -33 °C (-27 °F) |
| Color | ASTM D1500 | 0.5 |
| Phosphorus, wt. % | ASTM D5185 | 0.003 |
| Sulfur, wt. % | ASTM D4951 | 0.011 |
| Sulfated Ash, wt. % | ASTM D874 | 0 |
| Nitrogen, wt. % | ASTM D4629 | 0.0164 |

Typical test data average values only, minor variations which do not affect product performance are to be expected during normal manufacturing.

READ ENTIRE SDS BULLETIN FOR HANDLING AND SAFETY INFORMATION

ADVANTAGE

Advantage Distributing and Lubricants, LLC

3434 Marion Rd SE
Rochester, MN 55904
507-289-5555



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