



DURAGARD® IS A REGISTERED TM OF ADVANTAGE DIST. LLC, ROCH., MN 55904 Product Code: DURROT32

DURAGARD®

INDUSTRIAL R&O TURBINE 32 CIRCULATING OIL

ADVANCED TECHNOLOGY, PREMIUM LUBRICANTS

DURAGARD® Industrial R&O Turbine 32 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 32 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 32 Circulating Oil

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

Cincinnati/MAG IAS P-68
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	32.63
Specific Gravity @60°F (15.6°C)	ASTM D4052	0.8621
Viscosity @ 40°C cSt	ASTM D445	32.38
Viscosity @ 100°C cSt	ASTM D445	5.565
Viscosity Index	ASTM D2270	109
Pour Point °C (°F)	ASTM D5950	-33 °C (-27 °F)
Color	ASTM D1500	0.5
Phosphorus, wt. %	ASTM D5185	0.003
Calcium, wt. %	ASTM D5185	0.011
Sulfur, wt. %	ASTM D4951	0.065
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

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