



DURAGARD® IS A REGISTERED TM OF ADVANTAGE DIST. LLC, ROCH., MN 55904 Product Code: DURINDRO320xx

DURAGARD®

INDUSTRIAL TURBINE R&O AA-320

INHIBITED CIRCULATING OIL

ADVANCED TECHNOLOGY, PREMIUM LUBRICANTS

DURAGARD® Industrial Turbine R&O AA-320 Inhibited Circulating Oil is a premium quality oil formulated with ultra-refined, High Viscosity Index (HVI), paraffinic base oil 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. It 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 or Steam powered Turbines.

DURAGARD® Industrial Turbine R&O AA-320 Inhibited Circulating Oil is primarily used in applications for continuous reuse in circulation lubrication systems for gears and bearings. The Turbine R&O AA-320 Circulating Oil is resistant to the effects of prolonged elevated temperature exposure and perform very well in circulating systems with short oil residence times. Exceptional anti-wear properties result in better equipment performance which improves production capacity while reducing breakdowns. They are used in applications using splash, bath and ring oil arrangements and all other application methods involving pumps, valves and auxiliary equipment. They are recommended for use in hydraulic systems where higher viscosity oils are specified.

Customer Benefits with **DURAGARD® DIAMOND PLATE PROTECTION®**

- * Exceptional protection against wear from contaminants.
- * Maintains viscosity, even under higher operating temperatures.
- * Reduced foaming ensures smooth, efficient operation and proper lubrication of all parts in the system.
- * Long lubricant charge life giving extended drain periods and reduced product replacement costs.
- * Applications include: Moderate duty spur, bevel, helical, herringbone gear units and circulating systems.
- * For lubrication of plain bearings, roller bearings, parallel shaft, and bevel gearing.

Application Specifications:

DURAGARD® Industrial Turbine R&O AA-320 Inhibited Circulating Oil

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

Denison HF-1
DIN 51524, Part 1
Alstom HTGD 90117
General Electric GEK-32568F, GEK107395
Solar Turbines ES 9-224
DIN 51515 Part 1, Part 2
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:

Product Code: DURROT320

INSPECTION INFORMATION	TEST METHOD	TYPICAL VALUE
Gravity API	ASTM D287	27.49
Specific Gravity @60°F (15.6°C)	ASTM D4052	0.89
Viscosity @ 40°C cSt	ASTM D445	319.9
Viscosity @ 100°C cSt	ASTM D445	24.83
Viscosity Index	ASTM D2270	99
Pour Point °C (°F)	ASTM D5950	-18 °C (-0 °F)
Color	ASTM D1500	7
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

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