**R&O Turbine Oils**

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| Product Application: |

Beacon R&O Turbine oils are premium industrial grade high performance circulatory lubricants designed for the lubrication of steam and hydro turbine systems and any other systems requiring an extended life circulating lubricant.

Beacon R&O Turbine Oils are formulated with highly refined base stocks and cutting edge additive technology to provide for an extended life lubricant that is both exceptionally chemically and thermally stable while also providing excellent rust and corrosion protection and decent anti-wear properties.

R&O Turbine Oils are designed for the lubricant of hydraulic steam turbines, hydroturbines, vacuum pumps, natural gas compressors and any system requiring an extended life precision lubricant.

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| Package Size: |

Drums, Pails

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| Features and Advantages: |

\*Chemically & thermally stable

\*Excellent water demulsibilty

\*Protection against rust and corrosion

\*High resistance to foaming and excellent air entrainment resistance

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| Meets or exceeds the following specifications:  |

DIN 51515-:1 2010-02 CINCINNATI P-62

DIN 51517-2: 2009-06 DENISON HF 1A

GE GEK 46506D ISO-L-CKB

GE GEK 27070 DIN 51506VBL

GE GEK 28143A AFNOR NF E 48600 HL

JIS K-2213 Type 2 w/Additives (1983)

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| Typical Characteristics:  |

**ISO Viscosity Grade 22 32 46 68 100 150 220 320 460**

Viscosity, ASTM D 445

cSt @ 40°C 22 31 44.5 65.1 95.1 148 236 328 458

cSt @ 100°C 4.0 5.5 6.9 8.7 10.9 14.7 19.8 24.4 31.1

Viscosity Index, ASTM D 2270 102 102 98 95 95 95 95 95 95

Pour Point, °C, ASTM D 97 -20 -18 -15 -15 -15 -15 -15 -10 -10

Flash Point, °C, ASTM D 92 192 218 221 223 237 240 265 280 290

Density@5°C kg/l,ASTM D4052 0.84 0.85 0.86 0.87 0.88 0.89 0.893 0.896 0.90

TOST,ASTM D943, Hours to2 NN 5000 5000 3700 4500 4500 4500 4500 4500 4500

Rust Prevention, ASTM D 665:

Distilled Water Pass Pass Pass Pass Pass Pass Pass Pass Pass

Sea Water Pass Pass Pass Pass Pass Pass Pass Pass Pass

Water Seperability, ASTM D 1401, Min.

to 3 ml emulsion @ 54°C 15 15 15 20 30 30 30 30 30

Copper Strip Corrosion, ASTM D 130, 3 hrs

@ 121°C 1B 1B 1B 1B 1B 1B 1B 1B 1B

Foam Test, ASTM D 892, Seq I Tendency/Stability,

ml/ml 20/0 20/0 50/0 50/0 50/0 50/0 50/0 50/0 50/0

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