**Signal Vac AX Pump Oils**

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| Product Application: |

Signal Vac AX Pump Oils are industrial grade compressor/vacuum lubricants specially formulated from severely hydrotreated high VI paraffinic base stocks.

Vac AX Pump Oils are also formulated with highly refined basestocks and cutting-edge additive technology to provide for an extended life lubricant that is both exceptionally, chemically, and thermally stable while providing excellent rust and corrosion protection as well as decent anti-wear properties.

Signal Vac AX Pump Oils are fortified with rust, oxidation, and foam inhibitors. They shed water readily and ae highly resistant to emulsification providing long service life in single stage and multistage mechanical vacuum pumps, hydraulic steam turbines, air compressors and other industrial units.

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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 -28 -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 1A 1A 1A 1A 1A 1A 1A 1A 1A

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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