NEXUS LUBRICANT

Product Data Sheet

NEXUS FS COMPRESSOR OIL

SYNTHETIC COMPRESSOR OIL

Description

Nexus FS Compressor Oil is formulated with high-quality synthetic base stocks and an advanced additive system designed to deliver superior performance and long service life in air compressor applications.

The formulation provides excellent resistance to wear, oxidation, and the formation of sludge and carbon deposits, ensuring clean and reliable compressor operation. Its low volatility characteristics help minimize oil consumption and reduce the risk of oil thickening and deposit build-up.

Nexus FS Compressor Oil is engineered to support extended oil drain intervals of up to **three times longer** than conventional compressor oils, depending on operating conditions. The product is available in a range of viscosity grades to meet specific equipment and performance requirements.

Applications

Nexus FS Compressor Oil is recommended for use in a wide range of air compressor systems operating under demanding conditions, including:

- **Rotary Screw Compressors**
  Suitable for continuous operation at elevated temperatures and loads.
- **Reciprocating (Piston) Compressors**
  Provides reliable lubrication under high-pressure and intermittent duty conditions.
- **Rotary Vane Compressors**
  Ensures stable lubrication and efficient operation.
- **Vacuum Pumps**
  Applicable for systems requiring clean operation and high oxidation stability.
- **High-Temperature Compressor Applications**
  Ideal for compressors operating at elevated discharge temperatures.
- **Extended Service Interval Applications**
  Recommended for operations requiring long oil life and reduced maintenance frequency.

Benefits

- **Extended Oil Drain Capability**
  Supports service intervals up to three times longer than conventional compressor oils.
- **Excellent Oxidation Stability**
  Minimizes sludge, varnish, and carbon deposit formation for cleaner system operation.
- **Low Volatility**
  Reduces oil consumption and helps maintain consistent oil properties over time.
- **Enhanced Wear Protection**
  Protects critical compressor components, extending equipment life.
- **Thermal Stability**
  Maintains performance under high operating temperatures.
- **Reduced Deposit Formation**
  Helps keep compressors clean, improving efficiency and reliability.
- **Consistent Viscosity Performance**
  High viscosity index ensures stable lubrication across a wide temperature range.
- **Improved Equipment Reliability**
  Reduces downtime and maintenance costs through reliable long-term performance.

	FS32	FS46	FS68	FS100	FS150
ISO Viscosity Grade, ASTM D 2442	32	46	68	100	150
Kinematic Viscosity @ 40°C/104°F, ASTM D 445	32	46	68	100	150
Kinematic Viscosity @ 100°C/212°F, ASTM D 445	6.30	9.03	9.20	11.90	14.20
Viscosity Index, ASTM D 2270	>110	>110	>110	>110	>110
Flash Point, ASTM D 92, COC, °C/°F	>225/455	>225/455	>225/455	>225/455	>225/455
Pour Point, ASTM D 97, °C/°F	min -9/15.8	min -9/15.8	min -9/15.8	min -9/15.8	min -9/15.8
Foam Sequence I – tendency / stability, ASTM D892, ml / ml	0/0	0/0	0/0	0/0	0/0
Conradson Carbon Residue, ASTM D189-06(2019), %	<0.1	<0.1	<0.1	<0.1	<0.1
Total Acid Number, ASTM D664-18e2	<0.3	<0.3	<0.3	<0.3	<0.3
Water Content, ASTM D6304-20, ppm	70	70	70	70	70

*Subject to usual manufacturing tolerances

Nexus FS Compressor Oil

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