

Product Data Sheet

Description

Nexus Moly-FS Compressor Oil is formulated using premium fully synthetic base oils and a specialized additive system enhanced with molybdenum to deliver outstanding performance and superior protection.

The advanced formulation provides excellent thermal and oxidation stability, combined with a high viscosity index, ensuring consistent lubrication across a wide operating temperature range. These characteristics enable reliable performance and efficiency, even under elevated compressed-air temperatures.

Applications

Nexus Moly-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 under high temperature and load conditions.
- **Reciprocating (Piston) Compressors**
Provides reliable lubrication and protection under high-pressure operation.
- **Rotary Vane Compressors**
Ensures stable lubrication and efficient performance.
- **Vacuum Pumps**
Applicable for vacuum systems requiring clean operation and oxidation stability.
- **High-Temperature Compressor Applications**
Ideal for systems operating at elevated discharge temperatures.
- **Extended Service Interval Applications**
Recommended for operations requiring long oil life and reduced maintenance frequency.

Benefits

- **Outstanding Thermal Stability**
Maintains lubricant integrity under high operating temperatures, reducing degradation.
- **Excellent Oxidation Resistance**
Minimizes sludge and deposit formation, keeping compressors clean and efficient.

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- **Enhanced Wear Protection**
Molybdenum-based additives provide additional protection against wear and metal contact.
- **Wide Operating Temperature Range**
High viscosity index ensures consistent lubrication across varying temperatures.
- **Reduced Friction and Energy Loss**
Helps improve compressor efficiency and lower operating temperature.
- **Extended Oil Drain Intervals**
Supports longer service life compared to conventional compressor oils.
- **Clean Operation**
Reduces carbon and varnish build-up, helping maintain system reliability.
- **Improved Equipment Reliability**
Ensures consistent performance, reducing downtime and maintenance costs.

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	M-FS32	M-FS46	M-FS68	M-FS100	M-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	6.1	7.5	9.5	11.5	14.5
Viscosity Index, ASTM D 2270	>130	>130	>130	>130	>130
Flash Point, ASTM D 92, COC, °C/°F	>225/455	>240/464	>240/464	>240/464	>240/464
Pour Point, ASTM D 97, °C/°F	-15/5	-15/5	-15/5	-15/5	-15/5
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 Moly-FS Compressor Oil

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