



AROX™ EP Series

Mobil Industrial, Canada

Premium Performance Rock Drill Oil

Product Description

AROX™ EP Series rock drill oils are premium quality high performance products primarily intended for the lubrication of pneumatically operated rock drills in underground and surface mining operations. AROX EP Series rock drill oils are formulated from high quality base stocks and carefully selected additives that are designed to provide excellent chemical stability and outstanding protection against wear and corrosion. They are also designed to offer an optimum balance between adhesiveness and emulsibility. This feature allows the lubricant to absorb moisture carried in the wet mine air system, while maintaining a protective oil film on the drill components. The potent EP characteristics of AROX EP Series rock drill oils provide excellent protection for the drill components that are subjected to percussive contact, thereby helping to improve equipment life in heavily loaded mining equipment. AROX EP rock drill oils possess high viscosity indexes and low pour points to ensure good lubrication at high and low operating temperatures.

In underground drilling operations, even a perfectly adjusted automatic oiler will cause oil mist to be exhausted to the atmosphere. AROX EP rock drill oils have been fortified by the addition of a tackiness additive, which helps to minimize stray oily mist. The reduction of stray oily mist in the work place can help lead to a safer and healthier work environment.

Features and Benefits

The AROX EP Series rock drill oils are designed to provide excellent lubrication for pneumatically driven drilling equipment and tools. All ISO Viscosity grades provide the following performance characteristics:

Features	Advantages and Potential Benefits
Effective Chemical Stability	Reduce sludge and deposit formation Improves valve operation Reduces valve maintenance and cleaning
Desired Emulsifiable Properties	Effective lubrication in presence of water
High Viscosity Index	Provides good lubrication at both high and low temperatures
Excellent Load Carrying Ability and Anti-Wear Protection	Reduces component wear Prolongs equipment life Reduces maintenance costs
Very Good Adhesive Characteristics	Protects metal surfaces from corrosion Provides good lubricant films under all conditions
Rust and Corrosion	Longer tool life Increased tool performance

Applications

AROX EP oils are designed for use in air-line lubricated pneumatic tools such as rock drills, jack hammers, stopers, drifters, wagon drills, chippers, tampers, riveters, impact tools and pavement breakers. AROX EP is available in 6 ISO viscosity grades, allowing the user to select the correct grade for use where seasonal ambient temperature variations are extreme.

- Pneumatically operated rock drills in underground and surface mining operations
- Pneumatically operated drills and jack hammers in highway construction and building operations
- Rock drills in quarry operations
- Percussion and rotary air-operated tools in industrial applications
- Airline oilers, where stray mist is present

Typical Properties

Product	22	32	68	100	150	220
KV40°C, cSt	22	32	68	100	150	220
KV100°C, cSt	4.2	5.6	9.1	11.9	15.0	19.5
Density at 15°C, KG/M3	875	867	879	882	886	892
Pour, °C (D5949)	-45	-33	-33	-21	-15	-21
Flash pt, °C	168	219	239	252	268	288

The values shown above are representative of current production. Some are controlled by manufacturing and performance specifications while others are not. All may vary within modest ranges.

Health and Safety

The products described on this data sheet are manufactured from high quality petroleum base stocks, carefully blended with selected additives. As with all petroleum products, good personal hygiene and careful handling should always be practiced. Avoid prolonged contact to skin, splashing into the eyes, ingestion or vapour inhalation. Please refer to the Material Safety Data Sheet for further information.

Note: The products described on this data sheet are NOT controlled under Canadian WHMIS legislation

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Imperial Oil

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Typical Properties are typical of those obtained with normal production tolerance and do not constitute a specification. Variations that do not affect product performance are to be expected during normal manufacture and at different blending locations. The information contained herein is subject to change without notice. All products may not be available locally. For more information, contact your local ExxonMobil contact or visit www.exxonmobil.com

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