



Technical Data Sheet

Compressor Oil (Synthetic Blend) for (Screw) Rotary Compressors (ISO Viscosity 46 & 68)

1. Product Name and Code

Product Name: Autonics Compressor Oil (Synthetic Blend)

Product Code: AEC-RSB-46/68

2. Product Description

Autonics-AEC-RSB Synthetic Blend Compressor Oil is a high-performance lubricant specially designed for use in **Rotary (Screw) Compressors**. It combines the superior oxidative stability and wear protection of synthetic oils with the cost-effectiveness of mineral oils. This synthetic blend formulation provides exceptional protection against wear, oxidation, and foaming, making it ideal for a wide range of industrial and commercial compressor applications.

3. Features and Benefits

Superior Wear Protection: The synthetic blend formulation reduces friction and wear, extending the life of compressor components.

Enhanced Oxidation Stability: The oil resists breakdown and sludge formation, even under high temperatures and continuous operation.

Excellent Foam Resistance: Helps in maintaining the stability and performance of compressors, reducing the risk of air and foam contamination.

High Viscosity Index (VI): Provides consistent lubrication performance across a wide temperature range, improving compressor efficiency in both cold starts and high-heat conditions.

Extended Oil Change Intervals: The high-quality synthetic blend offers longer service intervals compared to conventional oils.

Corrosion and Rust Protection: Prevents the formation of rust and corrosion on critical metal parts.

High-Temperature Stability: Designed to perform effectively in high-temperature environments, ensuring reliable compressor operation.

4. Technical Specifications

Properties	Method	Unit	Autonics-AEC-RSB	Autonics-AEC-RSB
ISO Viscosity Grade			46	68
Kinematic Viscosity @40°C	ASTM D445	mm ² /s	46	68
Kinematic Viscosity @100°C	ASTM D445	mm ² /s	7.78	8.10
Specific Gravity @ 85°F	ASTM D4052	kg/m ³	819.25	821.68
Viscosity Index	ASTM D2270		138	141
Flash Point	ASTM D92	C°	238	240
Pour Point	ASTM D97	C°	-30	-30

5. Application Guidelines

Screw Rotary Compressors:

- Suitable for lubrication of screw rotary compressors operating in industrial and commercial environments, particularly those handling moderate to high-pressure operations.
- Ideal for continuous operation at medium to high temperatures and moderate loads.
- Effective for compressors using oil-injected and oil-free technologies.

6. Health and Safety Information

Precautions:

- Use appropriate personal protective equipment (PPE), such as gloves and goggles,
- In case of skin contact: wash with soap and water.
- In case of eye contact: rinse immediately with clean water and seek medical attention.
- If ingested, seek immediate medical attention; do not induce vomiting.
- Prolonged or repeated exposure may cause skin irritation.