



Aircol MR

Rotary Screw Compressor Lubricant

Description

The Castrol Aircol™ MR compressor oil range of premium lubricants are formulated from highly refined mineral oils and novel additive technology to give outstanding antiwear and antirust performance to meet the requirements of Atlas Copco and similar types of compressor design.

Application

Aircol MR incorporates a carefully balanced antioxidant system providing improved oxidative and thermal stability giving “extended” service life for both oil flooded and oil injected rotary screw compressors operating continuously at air discharge temperatures up to 90°C. The product has been designed to meet service drain intervals of 4000 hours. For intermittent or continuous operation with air discharge temperatures above 90°C the manufacturers’ standard oil change periods should be used.

The Aircol MR range is fully compatible with nitrile, silicone and fluoropolymer seal materials.

Aircol MR is classified as follows:

- ISO 6743-3 Compressor Oils
- DAG and DAH for rotary air compressors

Aircol MR grades meet the requirements of:

- Atlas Copco for 4000 hour oil life.

Advantages

- Very low deposit forming tendencies extends oil change intervals and air filter life which contributes to a reduction in maintenance costs.
- Good air/oil separation properties at the separator element reduces risk of oil carry over.
- Good antiwear protection reduces rotor wear.
- Excellent water separation characteristics allows condensation to readily separate from the oil, minimising the risk of emulsions which could block the oil separator element.
- Excellent oxidation and thermal stability minimises oil thickening and extends the oil separator life and reduces fouling of coolers & pipes.
- Prevents corrosion when operating under humid conditions.

Typical Characteristics

| Name | Method | Units | MR 46 | MR 68 |
|---|------------|--------------------|----------------|----------------|
| Appearance | Visual | - | Clear & Bright | Clear & Bright |
| ISO ViscosityGrade | - | - | 46 | 68 |
| Density @ 15°C / 59°F | ASTM D4052 | kg/m ³ | 880 | 880 |
| Kinematic Viscosity @ 40°C / 104°F | ASTM D445 | mm ² /s | 46 | 68 |
| Kinematic Viscosity @ 100°C / 212°F | ASTM D445 | mm ² /s | 6.7 | 8.6 |
| Viscosity Index | ASTM D2270 | - | >95 | >95 |
| Foam Sequence I - tendency / stability | ASTM D892 | ml/ml | 30/0 | 30/0 |
| Pour Point | ASTM D97 | °C | -21 | -21 |
| Flash Point, PMCC | ASTM D93 | °C | >195 | >195 |
| Rust test - synthetic seawater (24 hrs) | ASTM D665B | - | Pass | Pass |
| Water Separation @ 54°C / 129°F (40/37/3) | ASTM D1401 | min | 15 | 15 |
| Oxidation Stability - Rotating Pressure Vessel test | ASTM D2272 | min | 700 | 700 |

Subject to usual manufacturing tolerances.

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