



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 32	MR 46	MR 68
Appearance	Visual	-	Clear & Bright	Clear & Bright	Clear & Bright
ISO ViscosityGrade	-	-	32	46	68
Density @ 15°C / 59°F	ISO 12185 / ASTM D4052	kg/m ³	870	880	880
Kinematic Viscosity @ 40°C / 104°F	ISO 3104 / ASTM D445	mm ² /s	32	46	68
Kinematic Viscosity @ 100°C / 212°F	ISO 3104 / ASTM D445	mm ² /s	5.6	6.7	8.6
Viscosity Index	ISO 2909 / ASTM D2270	-	110	100	100
Foam Sequence I - tendency / stability	ISO 6247 / ASTM D892	ml/ml	30/0	30/0	30/0
Pour Point	ISO 3016 / ASTM D97	°C/°F	-21/-5.8	-21/-5.8	-21/-5.8
Flash Point, PMCC	ISO 2719 / ASTM D93	°C/°F	216/420.8	222/431.6	222/431.6
Rust test - synthetic seawater (24 hrs)	ISO 7120 / ASTM D665B	-	Pass	Pass	Pass
Water Separation @ 54°C / 129°F (40/37/3)	ISO 6614 / ASTM D1401	min	15	15	15
Oxidation Stability - Rotating Pressure Vessel test	ASTM D2272	min	700	700	700

Subject to usual manufacturing tolerances.

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