

Aircol SR

Synthetic rotary compressor lubricant

Description

The Castrol Aircol™ SR compressor oil range of premium lubricants are designed for use in rotary screw compressors and are based on polyalphaolefin (PAO) fluids.

Application

Aircol SR is suitable for use in oil flooded rotary screw compressors operating under extreme climatic conditions, harsh environments and severe operating conditions where very high air discharge temperatures (>100°C) are experienced.

These oils are also suitable for use in compressor units operating at normal operating conditions, with the maximum air discharge temperature $\leq 100^{\circ}\text{C}$, as defined by ISO 6743-3:2003. For normal operating conditions, these products can be used for extended drain intervals up to 8000 hours.

Aircol SR range is fully compatible with nitrile, silicone, polyurethane and fluropolymer seal materials typically used in compressor units. It is not compatible with butadiene styrene (SBR) or ethylene propylene (EPDM) seals.

Aircol SR is classified as follows:

- DIN 51506 classification - VDL
- ISO 6743/3 - DAG, DAH and DAJ for rotary air compressors

Aircol SR grades meet the requirements of:

- Atlas Copco 8000 hour oil drain interval
- Kaeser

Advantages

- Increased oil service life of typically up to 8000 hours in most systems, depending on the operating environment.
- Very low deposit forming tendency, extends service life of filters and separators.
- Outstanding oxidation stability and antiwear performance providing long lubricant and equipment life.
- Ester-free formulation eliminates the formation of corrosive acids leading to longer equipment life.
- Excellent water separation characteristics allow condensation to readily separate from the oil, minimising the risk of emulsions which could block the oil separator element.
- PAO based lubricant means good compatibility with seals and mineral oil based lubricants, allowing changeover to Aircol SR without compatibility issues.

Typical Characteristics

Test	Method	Unit	Aircol SR 32	Aircol SR 46	Aircol SR 68
Density @ 15°C	ASTM D4052	g/ml	0.83	0.84	0.84
KV @ 40°C	ASTM D445	mm ² /s	32	46	68
KV @ 100°C	ASTM D445	mm ² /s	6.1	7.8	10.7
Viscosity Index	ASTM D2270	-	137	137	142
Foam Seq I	ASTM D892	ml/ml	10/0	10/0	10/0
Pour point	ASTM D97	°C	-54	-54	-54
Flash point, PMCC	ASTM D93	°C	227	235	264
Rust test 24hrs, synthetic sea water	ASTM D665B	-	pass	pass	pass
RPVOT	ASTM D2272	min	4500	3000	3000
FZG fail stage (A8.3/90)	DIN 51354	-	8	9	9
Four Ball Wear	ASTM D2783	mm	0.4	0.4	0.4

The above figures are typical of those obtained with normal production tolerance and do not constitute a specification.

Storage

All packages should be stored under cover. Where outside storage is unavoidable drums should be laid horizontally to avoid the possible ingress of water and the obliteration of drum markings.

Products should not be stored above 60°C, exposed to hot sun or freezing conditions.

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7 Jun 2010

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