

THE EXPERTS IN COMPRESSOR OIL TECHNOLOGY

CASTROL OFFERS YOU A COMPREHENSIVE RANGE OF WORLD-CLASS COMPRESSOR OILS AND PRODUCT SUPPORT SERVICES.

We offer you superior products for rotary screw and reciprocating compressors, ranging from small single units to very large capacity, multi-stage configurations. Depending on the application, these are based on mineral or synthetic fluids.

QUALITY AND RELIABILITY FROM START TO FINISH



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LUBRICANTS

COMPRESSOR OILS

YOUR ADVANTAGE IN AN INDUSTRIAL WORLD

IT'S MORE THAN JUST OIL. IT'S LIQUID ENGINEERING.



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THE COMPLETE RANGE OF COMPRESSOR OIL SOLUTIONS

CASTROL AIRCOL™ MR RANGE

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.

Castrol 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 Castrol Aircol™ MR range is fully compatible with nitrile, silicone and fluropolymer seal materials and is classified as follows:

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

Castrol Aircol™ MR grades meet the requirements of:

- Atlas Copco for 4000 hour oil life.

- **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.

CASTROL AIRCOL™ PD RANGE

Castrol Aircol™ PD oils are a range of compressor lubricants, based upon highly refined mineral oils, which are intended for the lubrication of both reciprocating and rotary air compressors. Castrol Aircol™ PD grades are ashless oils recommended for the lubrication of rotors, bearings and gears in rotary compressors, especially the oil flooded screw type with lubricant drain cycles of up to 2000 hours under normal use. Normal use in screw type compressors is defined by a maximum air discharge temperature $\leq 100^\circ\text{C}$ as defined by ISO 6743-3:2003. Castrol Aircol™ PD can be used for either normal or severe duty lubrication of reciprocating and rotary drip-feed air compressors, as defined by ISO 6743. Castrol Aircol™ PD 32/46 are suitable for oil-flooded rotary compressors. Castrol Aircol™ PD 68/100 are suitable for crankcase and cylinders of reciprocating compressors. The Castrol Aircol™ PD range is fully compatible with nitrile, silicone and fluropolymer seal materials. Castrol Aircol™ PD is classified as follows:

- DIN 51506 classification - VDL
- ISO 6743/3 - DAA and DAB for reciprocating air compressors, DAG for rotary air compressors

Castrol Aircol™ PD meets the requirements (for appropriate viscosity grade) of major compressor manufacturers such as Atlas Copco, Champion, Sullair, Compair/Broomwade, Ingersoll-Rand, Kaeser and Bauer.

- **Good water separation characteristics** allows condensation to readily separate from the oil, minimising the risk of emulsions which could block the oil separator element.
- **Fully inhibited against corrosion** which enables protection even when operating under humid conditions.
- **Good thermal stability, low volatility and low carbon formation** reduces the risk of fire and explosion and leads to a longer operating life (up to 2000 hours).
- **Low deposit forming tendencies** extends oil change intervals and provides longer air filter life contributing to a reduction in maintenance costs.
- **Excellent coalescing properties** mean little carry over of oil in the air stream.

CASTROL AIRCOL™ SN RANGE

Castrol Aircol™ SN compressor lubricants are formulated using high quality synthetic diesters.

Castrol Aircol™ SN compressor lubricants are formulated to cope with the severe operating conditions experienced in rotary screw, rotary vane and reciprocating air compressors operating at high compression ratios and high discharge temperatures.

Under these conditions Castrol Aircol™ compressor oils offer reduced carbon forming tendencies and extended oil life when compared to mineral oils due to their much higher oxidation resistance. In reciprocating units, Castrol Aircol™ grades have up to eight times the service life of mineral oils.

- **Superior oxidation stability.** Improved lubricity and film strength.
- **Higher film strength** and excellent anti-wear properties. Excellent high temperature performance.
- **Reduced maintenance,** extended oil life and cleaner operations, minimises carbon formulation and provides extended valve life.
- **Reduced oil consumption** due to a reduction in the required lubricant feed rate to the cylinder walls and piston rings without increasing wear rates. Since less lubricant is consumed the delivered compressed air is also of higher quality. Reduced compressor down-time due to less wear on all moving parts, longer machine life and reduced maintenance.
- **The operating temperature** range of Castrol Aircol™ SN grades extend beyond that of conventional mineral oils. The high spontaneous ignition temperature provides greater safety by reducing the possibility of downstream fires and explosions.

CASTROL AIRCOL™ SR RANGE

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.

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

- **Increased oil service life** of typically up to 8000 hours in most systems depending on the operating environment.
- **Very low deposit forming tendency** which extends the 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 in the presence of water and high temperatures which extends 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.

