

Aircol PD

Air compressor lubricant

Description

Aircol PD compressor oil range of lubricants are based upon highly refined mineral oils and carefully chosen additives. They are intended for the lubrication of rotary and reciprocating compressors.

Applications

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 as defined by ISO 6743-3:2003 (maximum air discharge temperature $\leq 100^{\circ}\text{C}$).

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 as follows:

	Normal duty	Severe Duty
Discharge temperatures $^{\circ}\text{C}$	≤ 165	> 165
Differential pressures MPa	≤ 2.5	> 2.5
Discharge pressures MPa	≤ 7.0	> 7.0

Aircol PD compressor oils exhibit low carbon forming tendencies and meet the requirements of the DIN 51506 VD-L classification for reciprocating compressors having air discharge temperatures up to 220°C .

Selection of the required viscosity grade should be based upon the compressor manufacturers' recommendation. However as a general guide Aircol PD 32 and 46 are suitable for oil flooded rotary compressors, whereas Aircol PD 68 and 100 would be selected for lubricating the crankcase and cylinders of reciprocating compressors. Aircol PD 150 is recommended for sliding-vane compressors, or for reciprocating units at high ambient temperatures.

Aircol PD is fully compatible with nitrile, silicone and fluoropolymer seal materials.

Aircol PD is classified as DIN 51506 VD-L; ISO 6743-3 DAA and DAB for reciprocating air compressors, DAG for rotary air compressors.

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.

Advantages

- Excellent water separation characteristics allows condensation to readily separate from the oil, minimising the risk of emulsions which could block the oil separator element.
- Prevents corrosion when operating under humid conditions.
- Excellent coalescing properties means little carry over of oil in the air stream.
- Low deposit forming tendencies extends oil change intervals and provides longer air filter life which contributes to a reduction in maintenance costs.
- 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).

Typical Characteristics

Test	Method	Unit	100	150
Density @ 15°C	ASTM D4052	g/ml	0,89	0,89
K.V @ 40°C	ASTM D445	mm ² /s	98.5	146.2
K.V @ 100°C	ASTM D445	mm ² /s	11.4	14.5
Viscosity Index	ASTM 2270	-	98	98
Foam Sequence I	ASTM D892	mls/mls	10/0	30/0
Pour Point	ASTM D97	°C	-12	-6
Flash Point, PMC	ASTM D93	°C	222	222
Rust Test (24 hr synthetic sea water)	ASTM D665B	-	Pass	Pass
Conradson carbon residue after aging	DIN 51352/2	%	<3.0	<3.0
RPVOT	ASTM D2272	mins	-	-

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.

Castrol Aircol PD

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