



Aircol PD

Air Compressor Lubricants

Description

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

Application

Aircol PD are ashless oils recommended for the lubrication of rotors, bearings and gears in rotary compressors, especially oil flooded screw types with delivery temperatures of up to 120°C.

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.

Aircol PD 32 and 46 are suitable for oil flooded rotary compressors, whilst Aircol PD 68 and 100 would be suitable for lubricating the crankcase and cylinders of reciprocating compressors.

Aircol PD 150 is recommended for sliding vane compressors, or for reciprocating units operating at high ambient temperatures. Selection of the required viscosity grade should be based upon the compressor manufacturers' recommendation.

The Aircol PD range is fully compatible with nitrile, silicone and fluropolymer seal materials.

Aircol PD is classified as follows:

DIN 51506 VD-L.

ISO 6743-3 Compressor Oils.

DAA and DAB for reciprocating air compressors.

DAG for rotary compressors.

Advantages

- Good viscosity characteristics over a wide range.
- 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.

Typical Characteristics

Name	Method	Units	Aircol PD 32	Aircol PD 46	Aircol PD 68	Aircol PD 100	Aircol PD 150
ISO Grade			32	46	68	100	150
Density @ 15°C, Relative	ISO 12185 / ASTM D4052	g/ml	0.87	0.87	0.88	0.89	0.89
Viscosity, Kinematic 40°C	ISO 3104 / ASTM D445	cSt	32	46	68	100	150
Viscosity, Kinematic 100°C	ISO 3104 / ASTM D445	cSt	5.57	6.67	8.57	11.4	14.5
Viscosity Index	ISO 2909 / ASTM D2270		110	100	100	98	98
Flash Point, PMCC	ISO 2719 / ASTM D93	°C	>200	>200	>200	>200	>200
Pour Point	ISO 3016 / ASTM D97	°C	-21	-21	-21	-12	-9
Foam Sequential	ISO 6247 / ASTM D892	mls/mls	30/0	30/0	30/0	30/0	30/0
Rust Test	ISO 7210 / ASTM D665B	-	No rust	No rust	No rust	No rust	No rust
Conradson Carbon Residue after Ageing	DIN 51352/2	%	0.7	0.7	0.7	<3.0	<3.0
RPVOT	ASTM D2272	mins	270	270	270	-	-

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

Additional Information

Aircol PD grades meet the requirements of:

- Atlas Copco (2000 hour oil).
- Compair.

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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