



## Aircol PD Range

Air compressor lubricants

### Description

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

### Application

The 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 delivery temperatures of up to 120°C.

The Castrol 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 Castrol Aircol PD 32 and 46 are suitable for oil flooded rotary compressors, whilst Aircol PD 68 and 100 would be selected for lubricating the crankcase and cylinders of reciprocating compressors. Castrol Aircol PD 150 is recommended for sliding vane compressors, or for reciprocating units operating at high ambient temperatures.

Castrol Aircol PD range is classified as follows:

- DIN 51506 VD-L.
- ISO 6743/3 Compressor Oils - 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.

### Features and Benefits

- Excellent water separation characteristics which allow 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 longer operating life (up to 2000 hours).
- Low deposit forming tendencies extends oil change intervals and provides longer air filter life which contributes to a reduction in maintenance costs.
- Excellent coalescing properties mean little carry over of oil in the air stream.

## Technical Data

Name	Method	Units	Aircol PD 32	Aircol PD 46	Aircol PD 68	Aircol PD 100	Aircol PD 150
Relative Density at 15°C	ASTM D4052 / ISO 12185	g/ml	0.874	0.876	0.881	0.885	0.887
Kinematic Viscosity at 40°C	ASTM D445 / ISO 3104	mm <sup>2</sup> /s	32	46	68	100	150
Kinematic Viscosity at 100°C	ASTM D445 / ISO 3104	mm <sup>2</sup> /s	5.57	6.67	8.57	11.4	14.5
Viscosity Index	ASTM D2270 / ISO 2909		110	100	100	98	98
Foam Sequence I	ASTM D892 / ISO 6247	ml/ml	30/0	30/0	30/0	30/0	30/0
Open Flash Point	ASTM D92 / ISO 2592	°C/°F	226/439	232/450	232/450	253/487	256/493
Pour Point	ASTM D97 / ISO 3016	°C/°F	-21/-6	-21/-6	-21/-6	-12/10	-9/16
Demulsification at 54°C	ASTM D1401 / ISO 6614	mins	15	15	15	-	-
Demulsification at 82°C	ASTM D1401 / ISO 6614	mins	-	-	-	20	20
Rust Test, Procedure B	ASTM D665B	-	Pass	Pass	Pass	Pass	Pass
Conradson Carbon Residue Oxidation Test	DIN 51352-2	% wt	0.7	0.7	0.7	< 3	< 3

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

## Care and Handling

Avoid prolonged or repeated contact with skin. Wash thoroughly after handling.

## Packaging and 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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