Product Data

AIRCOL PD RANGE

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Air Compressor Lubricants

DESCRIPTION

Castrol Aircol PD oils are a range of compressor oils, based upon highly refined mineral oils, which are intended for the lubrication of both reciprocating and rotary air compressors.

APPLICATION

Castrol Aircol PD compressor oils have excellent oxidation resistance and low carbon forming tendencies and meet the requirements of the DIN 51506 VD-L classification of lubricants for compressors having air discharge temperatures up to 220ºC. Castrol Aircol PD compressor oils also have sufficient anti-wear performance, as measured in the FZG Gear Test, to allow their use in certain screw compressors where drive between the screws is transmitted by the rotor faces themselves. The modern tendency in air compressor design is towards higher capacities from smaller units, with higher loads and temperatures leading to greater demands upon the lubricant.

FEATURES	BENEFITS
♦ Excellent water separation characteristics	♦ Allows condensation formed within the compressor to readily separate from the oil
	♦ Minimise the risk of emulsions causing premature oil separator element blockage.
♦ Fully inhibited against corrosion	♦ Preventing corrosion within the compressor when operating under humid conditions.

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TYPICAL PHYSICAL CHARACTERISTICS

Kinematic Viscosity, cSt					
@ 40ºC	32	46	68	100	150
@ 100ºC	5.6	6.7	8.6	11.4	15.0
Viscosity Index	110	97	96	100	100
Relative Density @ 20ºC	0.870	0.870	0.875	0.875	0.890
Closed Flash Point, ºC	216	220	222	243	246
Pour Point, ºC	-27	-18	-15	-12	-12
Rust Prevention,					
Distilled Water	Pass	Pass	Pass	Pass	Pass
Synthetic Sea Water	Pass	Pass	Pass	Pass	Pass
DIN 51506 Category	VD-L32	VD-L46	VD-L68	VD-L100	VD-L150

OTHER INFORMATION

Castrol Aircol PD compressor oils are available in a wide range of viscosities, to suit different types of compressors operating in varying ambient temperatures. Selection of the required viscosity grade should be based upon the compressor manufacturers recommendations for the appropriate ambient temperature range, which will have been chosen to provide the best compromise between maintaining a fluid film between the working surface and minimising the amount of power absorbed by fluid friction in this oil film.

As a generalisation, however, at normal ambient temperatures Aircol PD 32 and Aircol PD 46 are suitable for oil-flooded rotary compressors, whilst Aircol PD 68 and Aircol PD 100 would be selected for the crankcase and cylinders of reciprocating compressors. Aircol PD 150 is recommended for sliding-vane compressors, or for reciprocating units at high ambient temperatures.

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