



Product Data

Aircol SW Range

Synthetic refrigeration compressor lubricant

Description

The Castrol Aircol™ SW range of synthetic refrigeration lubricants are formulated from polyolester base stocks.

Application

They are specifically designed for use with refrigeration systems using environmentally friendly HFC refrigerants, in particular R134a.

Advantages

The synthetic base stocks used in the Aircol SW range are fully miscible with HFCs, in particular R134a, even at temperatures well below the minimum likely to be encountered in service.

The Aircol SW grades have been formulated to enhance hydrolytic stability, load carrying and inhibition against copper plating. They are wax free and hence have very low pour points. This ensures the evaporator remains clean (consequent efficient heat transfer) and reduces the risk of pipe blockages.

Typical Characteristics

Name	Method	Units	SW 32	SW 46	SW 68	SW 100	SW 170	SW 220
Density @ 20°C / 68°F	ISO 12185 / ASTM D4052	kg/m ³	977	980	980	969	968	975
Base Oil Viscosity @ 40°C / 104°F	ISO 3104 / ASTM D445	mm ² /s	32	46	68	100	170	220
Base Oil Viscosity @ 100°C / 212°F	ISO 3104 / ASTM D445	mm ² /s	5.4	6.9	8.5	11.4	17	19
Pour Point	ISO 3016 / ASTM D97	°C/°F	-46/-50.8	-42/-43.6	-39/-38.2	-30/-22	- 27/-16.6	- 27/-16.6
Flash Point - closed cup method	ISO 2719 / ASTM D93	°C/°F	233/451.4	235/455	245/473	235/455	235/455	250/482

Subject to usual manufacturing tolerances.

Aircol SW Range

22 Aug 2012

Castrol, the Castrol logo and related marks are trademarks of Castrol Limited, used under licence.

This data sheet and the information it contains is believed to be accurate as of the date of printing. However, no warranty or representation, express or implied, is made as to its accuracy or completeness. Data provided is based on standard tests under laboratory conditions and is given as a guide only. Users are advised to ensure that they refer to the latest version of this data sheet. It is the responsibility of the user to evaluate and use products safely, to assess suitability for the intended application and to comply with all applicable laws and regulations. Safety Data Sheets are available for all our products and should be consulted for appropriate information regarding storage, safe handling, and disposal of the product. No responsibility is taken by either BP plc or its subsidiaries for any damage or injury resulting from abnormal use of the material, from any failure to adhere to recommendations, or from hazards inherent in the nature of the material. All products, services and information supplied are provided under our standard conditions of sale. You should consult our local representative if you require any further information.

Castrol Industrial, Technology Centre, Whitchurch Hill, Pangbourne, Reading, RG8 7QR, United Kingdom

<http://msdspds.castrol.com>