



Product Data

Castrol® Aviator S

S 65 / 80 / 100 / 120

Straight Grade Aircraft Piston Engine Oils

Description

Castrol® Aviator S piston oils are formulated from selected, highly-refined mineral basestocks, further enhanced by small quantities of antioxidant and pour point depressant. These oils are available in a variety of SAE grades ranging from SAE 30 to SAE 60 permitting the user to select the most suitable grade in relation to engine and environment.

Application (always refer to engine manufacturers' guidelines)

- 4-cycle reciprocating aviation engines where use of an ashless dispersant oil is not required
- Break-in of 4-cycle reciprocating aviation engines (users should follow engine manufacturers' recommendations for break-in procedure)

Features and Benefits

- Optimised formulation for break-in application
- Good low temperature fluidity for easier start-up during break-in
- Fully compatible with other monograde and multigrade products approved under SAE J1899 (MIL-L-22851D) and SAE J1966 (MIL-L-6082E)
- Complete range of SAE viscosity grades for all climates

Approval Status

- SAE J1966 (supersedes MIL-L-6082E)
- Lycoming Specification 301G
- Teledyne Continental® MHS #24B
- Pratt and Whitney Service Bulletin 1183-U

Grade Selection*

Castrol® Aviator	S65	S80	S100	S120
Operational Range (°C)	<-12	-17 to +21	+10 to +32	>+26
Operational Range (°F)	10	1 to 70	50 to 90	>80
SAE Grade	30	40	50	60

*This information is only to be used as a guideline. If in any doubt please contact your engine manufacturer.

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Castrol[®] Aviator S Range

TYPICAL PROPERTIES

	Test Method	S65	S80	S100	S120
Gravity, °API	D-1298	28.5	27.7	27.1	27.0
Kinematic Viscosity, cSt @ 100°C	D-445	12.0	14.7	19.7	24.1
@ 40°C	D-445	107	148	232	309
Viscosity Index	D-2270	100	97	97	99
Flash Point (COC), °C	D-92	256	278	290	296
Pour Point, °C	D-97	-36	-24	-27	-21
Copper Corrosion	D-130	1	1	1	1
Ash Content, wt%	D-482	<0.01	<0.01	<0.01	<0.01
Sediment, wt%	D-2273	<0.005	<0.005	<0.005	<0.005
Total Acid No., mg KOH/g	D-664	<0.1	<0.1	<0.1	<0.1
Sulphur Content, wt%	D-2622	0.35	0.44	0.55	0.60
Foam Test, Seq.II	D-892	0/0	0/0	0/0	0/0

Health, safety and environmental information are provided for this product in the Materials Safety Data Sheet. This gives details of potential hazards, precautions and First Aid measures, together with environmental effects and disposal of used products. Before using the product other than directed, please contact Air BP for consultation.