

AEROSHELL FLUID 1

AeroShell Fluid 1 is a light lubricating mineral oil containing, by specification, less than 0.10% mass stearic acid.

APPLICATIONS

For use as a lubricant where a light anti-freezing oil is required, e.g. on aircraft instruments, gun mounting buffers, hydraulic couplings, controls, door hinges, etc. Also used as a preservative oil for Stromberg carburettors and some fuel systems.

AeroShell Turbine Oil 3 can be used as an alternative to AeroShell Fluid 1, but AeroShell Fluid 1 must never be used as an alternative to AeroShell Turbine Oil 3.

SPECIFICATIONS

U.S.	–
British	Approved DEF STAN 91-44
French	Equivalent to AIR 3515/B
Russian	–
NATO Code	O-134
Joint Service Designation	OM-13

PROPERTIES	DEF STAN 91-44	TYPICAL
Oil type	Mineral	Mineral
Kinematic viscosity mm ² /s @ -25°C @ 40°C	1250 max 12 min	1140 12.15
Flashpoint Pensky Martin Closed Cup °C	144 min	150
Pourpoint °C	-45 min	Below -45
Aniline point °C	85 min	87
Aniline point change after extraction with sulphuric acid °C	5.5 max	2.2
Total acidity mgKOH/g	0.3 max	0.15
Ash %m	0.01 max	Less than 0.01
Density @15°C kg/l	–	0.873
Trace element content	Must pass	Passes
Copper corrosion 3 hrs @ 100°C	Must pass	Passes

A viscosity/temperature curve is shown at the end of this section.