



AeroShell Fluid 1

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

DESIGNED TO MEET CHALLENGES

Main 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, Approvals & Recommendations

- Approved DEF STAN 91-44 (British)
- Equivalent to AIR 3515/B (French)
- NATO Code O-134
- Joint Service Designation OM-13

For a full listing of equipment approvals and recommendations, please consult your local Shell Technical Helpdesk.

Typical Physical Characteristics

Properties		DEF STAN 91-44	Typical
Oil type		Mineral	Mineral
Kinematic viscosity	@-25°C mm ² /s	1250 max	1140
Kinematic viscosity	@40°C mm ² /s	12 min	12.15
Flashpoint (Pensky Martin Closed Cup)	°C	144 min	150
Pour point	°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

These characteristics are typical of current production. Whilst future production will conform to Shell's specification, variations in these characteristics may occur.

Health, Safety & Environment

• Health and Safety

Guidance on Health and Safety is available on the appropriate Material Safety Data Sheet, which can be obtained from <http://www.epc.shell.com/>

• Protect the Environment

Take used oil to an authorised collection point. Do not discharge into drains, soil or water.

Additional Information

• Advice

Advice on applications not covered here may be obtained from your Shell representative.