Technical Data Sheet

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, or the OEM Approvals website.

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.