



AeroShell Fluid 18

AeroShell Fluid 18 is a highly refined petroleum lubricating oil and contains additives to inhibit corrosion and rusting and improve water displacing characteristics.

DESIGNED TO MEET CHALLENGES

Main Applications

- AeroShell Fluid 18 is for use in the lubrication and corrosion protection of small arms and automatic weapons and as a general purpose lubricant for all applications where water displacing, corrosion protection, and low temperature lubrication is required.
- AeroShell Fluid 18 is also intended for locks, hinges, electric motors, fans, small bearings, control rods and cables and can be used in numerous non-aviation applications.
- AeroShell Fluid 18 is not recommended as a lubricant at temperatures below -57°C.

Specifications, Approvals & Recommendations

- Approved MIL-PRF-32033 (US)
- Equivalent DEF STAN 91-79 (obs) (British)
- NATO Code O-190 (obs)
- Joint Service Designation OX-14 (obs)

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

Typical Physical Characteristics

Properties		MIL-PRF-32033	Typical
Oil type		Mineral	Mineral
Kinematic viscosity	@40°C mm ² /s	11 min	11.3
Kinematic viscosity	@-40°C mm ² /s	7000 max	4500
Kinematic viscosity	@-54°C mm ² /s	60000 max	55700
Flashpoint (Cleveland Open Cup)	°C	135 min	150
Pour point	°C	-57 max	-61
Total Acid Number	mgKOH/g	-	0.44
Relative Density	@15.6/15.6°C	-	0.890
Evaporation 22 hrs	@100°C %	25 max	23
Precipitation number	ml	0.005 max	0.00
Corrosion & oxidation stability (168 hrs @ 121°C) - viscosity change	%	-5 to +20	10.25
Corrosion & oxidation stability (168 hrs @ 121°C) - change in acidity	mgKOH/g	0.2 max	0.01
Corrosion & oxidation stability (168 hrs @ 121°C) - metal weight change		Must pass	Passes
Water displacing properties		Must pass	Passes
Copper corrosion 3 hrs	@100°C	Must pass	Passes
Galvanic corrosion		None	Passes
Rust protection 168 hrs	@ 43°C	No rust	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.