

# 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.

## 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

U.S.	Approved MIL-PRF-32033
<b>British</b>	Equivalent DEF STAN 91-79 (obs)
<b>French</b>	–
<b>Russian</b>	–
<b>NATO Code</b>	O-190 (obs)
<b>Joint Service Designation</b>	OX-18 (obs)

PROPERTIES	MIL-PRF-32033	TYPICAL
Oil type	Mineral	Mineral
Kinematic viscosity mm <sup>2</sup> /s @ 40°C @ -40°C @ -54°C	11 min 7000 max 60000 max	11.3 4500 55700
Flashpoint Cleveland Open Cup °C	135 min	150
Pourpoint °C	-57 max	-61
Total Acid Number mgKOH/g	–	0.44
Relative Density @ 15.6/15.6°C	–	0.890
Evaporation 22 hrs at 100°C %	25 max	23
Precipitation number ml	0.005 max	0.00
Oxidation and corrosion stability 168 hrs @ 121°C – viscosity change % – change in acidity mgKOH/g – metal weight change	–5 to +20 0.2 max Must pass	10.25 0.01 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

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