



# AeroShell Fluid 3

AeroShell Fluid 3 is a general purpose mineral lubricating oil recommended for general lubrication of aircraft parts that require a light oil with good low temperature characteristics and a low freezing point. It is inhibited against oxidation and corrosion. AeroShell Fluid 3 is a relatively low viscosity product with good resistance to evaporation.

## DESIGNED TO MEET CHALLENGES

### Applications

- AeroShell Fluid 3 is recommended for general lubrication of aircraft parts that require a light oil, e.g. hinges, pivot joints, shaft joints, linkage pins and bearings, pulleys, cables, camera mechanisms, radio and radar gear and instruments. AeroShell Fluid 3 is normally applied by means of an oil can or brush. For this reason it is also described as 'an oilcan lubricant'.
- Operating temperature range of AeroShell Fluid 3 is -54°C to +121°C.
- For high temperature applications where no provision is made for frequent re-lubrication the synthetic oil, AeroShell Fluid 12, should be used in place of the mineral oil, AeroShell Fluid 3; however in this case care should be taken to ensure that there is no incompatibility between AeroShell Fluid 12 and seals, paints etc.

### Spécifications, Approbations et Recommandations

- MIL-PRF-7870E
- DEF STAN 91-47 (Obsolete)
- NATO Code O-142
- Joint Service Designation OM-12 (Obsolete)

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

### Caractéristiques types

Propriétés	Méthodes	MIL-PRF-7870E	Typical
Oil type			Mineral
Colour	ASTM D1500		<0.5
Density @15°C	kg/m <sup>3</sup>	ASTM D4052	890
Kinematic Viscosity @38°C	mm <sup>2</sup> /s	ASTM D445	10 min
Kinematic Viscosity @-40°C	mm <sup>2</sup> /s	ASTM D445	4 000 max
Flash Point (Cleveland Open Cup)	°C	ASTM D92	130 min
Pour Point	°C	ASTM D97	-57 max
Evaporation Loss 22h @ 99°C	%m	ASTM D972	25 max
Total Acid Number	mg KOH/g	ASTM D664	Report
Low temperature stability 72 hrs	@-54°C	FED-STD-791-3458	Must pass
Corrosion and oxidation stability 168 hrs - metal weight change	@121°C	ASTM D4636	Must pass
Corrosion and oxidation stability 168 hrs - viscosity change at 37.8°C	@121°C %	ASTM D4636	-5 to +20 max
			10

Propriétés	Méthodes	MIL-PRF-7870E	Typical
Corrosion and oxidation stability 168 hrs - acid number change @121°C mgKOH/g	ASTM D4636	0.2 max	0.06
Corrosivity	ASTM D6547	Must pass	Passes
Precipitation number ml	ASTM D91	0 max	Passes

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

## Hygiène, Sécurité et Environnement

- **Health and Safety**

AeroShell Fluid 3 is unlikely to present any significant health or safety hazard when properly used in the recommended application and good standards of personal hygiene are maintained.

Avoid contact with skin. Use impervious gloves with used oil. After skin contact, wash immediately with soap and water.

Guidance on Health and Safety is available on the appropriate Safety Data Sheet, which can be obtained from

<https://www.epc.shell.com>

- **Protect the Environment**

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

## Informations complémentaires

- **Advice**

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

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