



# AeroShell Grease 14

## Mineral Grease for Aircraft

AeroShell Grease 14 is a helicopter multi-purpose grease composed of a mineral oil thickened with a calcium soap, possessing outstanding anti-fret and anti-moisture corrosion properties. It is oxidation and corrosion inhibited.

The useful operating temperature range is  $-54^{\circ}\text{C}$  to  $+75^{\circ}\text{C}$ .

### DESIGNED TO MEET CHALLENGES

#### Main Applications

- AeroShell Grease 14 is the leading helicopter multi-purpose grease and is approved by all helicopter manufacturers. Owing to its anti-fret properties, AeroShell Grease 14 is particularly suitable for the lubrication of helicopter main and tail rotor bearings, splines, etc.

#### Specifications, Approvals & Recommendations

- MIL-G-25537C
- DEF STAN 91-51
- NATO Code G-366
- Joint Service Designation XG-284

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

#### Typical Physical Characteristics

Properties	Method	MIL-G-25537C	Typical
Oil type		-	Mineral
Thickener type		-	Calcium soap
Colour	Appearance	-	Tan
Base Oil Viscosity	@40°C mm <sup>2</sup> /s	ASTM D445	13.7
Base Oil Viscosity	@100°C mm <sup>2</sup> /s	ASTM D445	3.1
Useful operating temperature range	°C	-	-54 to +75
Drop point	°C	ASTM D2265	140 min
Worked penetration	@25°C	ASTM D217	265 to 305
Penetration unworked	@25°C	ASTM D217	200 min
Oxidation Stability	100h @ 99°C kPa	ASTM D942	34.5 max
Oxidation Stability	400h @ 99°C kPa	ASTM D942	137.8 max
Oil separation 30 hrs	@100°C %m	ASTM D6184	5.0 max
Water stability Penetration delta worked	100,000 strokes + 10% water	FED-STD-791-313	70 max
Evaporation Loss	22h @ 100°C %m	ASTM D972	9.5 max
Low Temperature Torque - Start	@-55°C Nm	ASTM D1478	1.47 max
Low Temperature Torque - Run	@-55°C Nm	ASTM D1478	0.196 max
Copper Corrosion	24h @ 100°C	ASTM D4048	Must pass

Properties		Method	MIL-G-25537C	Typical
Particle Count	part/ml	FED-STD-791 M.3005	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 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.

## Additional Information

- **Advice**

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