



AeroShell Grease 6

General purpose mineral grease for aircraft

AeroShell Grease 6 is a general purpose grease composed of a mineral oil and clay thickener, possessing good all-round properties within a limited range. It is inhibited against oxidation and corrosion and has good water resistance and low noise capability. The useful operating temperature range is -40°C to $+121^{\circ}\text{C}$.

DESIGNED TO MEET CHALLENGES

Main Applications

- AeroShell Grease 6 is a general purpose airframe grease for use in antifriction bearings, gearboxes and plain bearings within the temperature range of -40°C to $+121^{\circ}\text{C}$.

- Meets MIL-G-7711A (obsolete)
- DCSEA 382/A (equivalent)
- NATO Code G-382

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

Specifications, Approvals & Recommendations

- MIL-PRF-24139B

Typical Physical Characteristics

Properties	Method	MIL-PRF-24139B	Typical
Oil type		Mineral	Mineral
Thickener type		-	Clay
Colour		-	Golden Yellow
Base Oil Viscosity @ 40°C	mm ² /s	ASTM D445	-
Base Oil Viscosity @ 100°C	mm ² /s	ASTM D445	-
Useful operating temperature range	$^{\circ}\text{C}$		-
Drop point	$^{\circ}\text{C}$	ASTM D2265	149 min
Worked penetration @ 25°C		ASTM D217	265 to 320
Worked penetration 100,000 strokes		ASTM D217	355 max
Oxidation Stability 100h @ 99°C	psi	ASTM D942	10 max
Oil separation 30 hrs @ 100°C	%m	ASTM D6184	-
Water Washout @ 38°C	%m	ASTM D1264	5 max
Four Ball EP Load Wear Index	kgf	ASTM D2596	30 min
Apparent Viscosity	P	ASTM D1092	250 max
Low Temperature Torque - Start -29°C	Nm	ASTM D1478	0.44 max (4500 g-cm)
Low Temperature Torque - Run -29°C	Nm	ASTM D1478	0.15 max (1500 g-cm)
Copper Corrosion 24h @ 100°C		FED-STD-791-5309	Must pass
Particle Count	part/ml	FED-STD-791 M.3005	Must pass
Rust Test 52°C , 48h		ASTM D1743	Must pass

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**

AeroShell Grease 6 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.

Additional Information

- **Advice**

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