Technical Data Sheet

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°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°C.

Specifications, Approvals & Recommendations

- MIL-PRF-24139B
- 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.

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	-	35
Base Oil Viscosity	@100°C	mm^2/s	ASTM D445	-	5.5
Useful operating temperature range		°C		-	-40 to + 121
Drop point		°C	ASTM D2265	149 min	Min 300
Worked penetration	@25°C		ASTM D217	265 to 320	285
Worked penetration	100,000 strokes		ASTM D217	355 max	263
Oxidation Stability	100h @ 99°C	psi	ASTM D942	10 max	2
Oil separation 30 hrs	@100°C	%m	ASTM D6184	-	2.0
Water Washout	@38°C	%m	ASTM D1264	5 max	3
Four Ball EP Load Wear Index		kgf	ASTM D2596	30 min	35
Apparent Viscosity		P	ASTM D1092	250 max	133
Low Temperature Torque - Start	-29°C	Nm	ASTM D1478	0.44 max (4500 g-cm)	0.21
Low Temperature Torque - Run	-29°C	Nm	ASTM D1478	0.15 max (1500 g-cm)	0.03
Copper Corrosion	24h @ 100°C		FED-STD-791-5309	Must pass	Passes
Particle Count		part/ml	FED-STD-791 M.3005	Must pass	Passes
Rust Test	52°C, 48h		ASTM D1743	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**

  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.