Technical Data Sheet

AeroShell **Grease *5***

AeroShell Grease 5 is a high temperature grease composed of a mineral oil thickened with Microgel®, possessing good load-carrying ability. It is inhibited against oxidation and corrosion and has excellent resistance to water. The useful operating temperature range is –23°C to +177°C.

DESIGNED TO MEET CHALLENGES

Main Applications

- AeroShell Grease 5 is particularly effective for use as a wheel bearing grease, especially when landing speeds are high, and is suitable for the lubrication of aircraft and engine accessories operating at high speeds and at relatively high temperatures, e.g. magnetos, generators and starters. For the lubrication of rolling bearings which are required to start at temperatures as low as –23°C an adequate period should be allowed for the grease to channel.

Specifications, Approvals & Recommendations

- U.S. : Meets MIL -G- 3545C (Obsolete)
- British : Meets DTD.878A (Obsolete)
- French : Equivalent DCSEA 359/A
- NATO Code : G-359 (Obsolete)
- Joint Service Designation : XG-277 (Obsolete)

For a full listing of equipment approvals and recommendations, please consult your local Shell Technical Helpdesk, or the OEM Approvals website.

Typical Physical Characteristics

Properties			MIL-G-3545C	Typical
Oil type			-	Mineral
Thickener type			-	Microgel
Base Oil viscosity	@40°C	mm^2/s	-	500 to 525
Base Oil viscosity	@100°C	mm^2/s	-	32
Useful operating temperature range		°C	-	-23 to +177
Drop point		°C	177 min	260+
Worked penetration	@25°C		250 to 300	284
Unworked penetration	@25°C		-	281
Bomb Oxidation pressure drop 100 hrs	@99°C	lb/in^2	10 max	6
Bomb Oxidation pressure drop 500 hrs	@99°C	lb/in^2	25 max	15
Oil separation 30 hrs	@100°C	% m	5 max	0.5
Water resistance test loss	@41°C	% m	20 max	0.5
Evaporation loss 22 hrs	@149°C	% m	-	1
Mean Hertz Load		kg	-	37
Copper corrosion 24 hrs	@100°C		Must pass	Passes
Bearing protection 2 days	@51°C		Must pass	Passes
Anti-friction bearing performance	@149°C	hrs	-	600+
Colour			-	Amber

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 Material Safety Data Sheet, which can be obtained from http://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.