



AeroShell Grease 22

AeroShell Grease 22 is a versatile advanced general purpose grease composed of a synthetic hydrocarbon oil thickened with Microgel®, with outstanding performance characteristics. Appropriate additives are included to achieve the necessary oxidation and corrosion resistance, anti-wear properties and load carrying properties.

The useful operating temperature range is -65°C to +204°C.

DESIGNED TO MEET CHALLENGES

Main Applications

- AeroShell Grease 22 is especially recommended for use wherever severe operating conditions are encountered as in high bearing loads, high speeds, wide operating temperature range, and particularly where long grease retention and high resistance to water washout are required.
- The wide range of applications include aircraft wheel bearings, engine accessories, control systems, actuators, screw-jacks, servo mechanisms and electric motors, helicopter rotor bearings, instruments, airframe lubrication, hinge pins, static joints, landing gears.
- AeroShell Grease 22 contains a synthetic hydrocarbon oil and should not be used in contact with incompatible seal materials.

Specifications, Approvals & Recommendations

- U.S. : Approved MIL-PRF-81322F NLGI Grade 2, Approved DOD-G-24508A
- British : Approved DEF STAN 91-52
- French : Approved DCSEA 395/A
- Russian : Analogue of CIATIM 201 and 203, VNII NP 207, ERA (VNII NP 286M) and ST (NK-50)
- NATO Code : G-395
- Joint Service Designation : XG-293

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-PRF-81322F NLGI Grade 2	Typical
Oil type			-	Synthetic Hydrocarbon
Thickener type			-	Microgel
Base Oil viscosity	@-40°C	mm ² /s	-	7500
Base Oil viscosity	@40°C	mm ² /s	-	30.5
Base Oil viscosity	@100°C	mm ² /s	-	5.7
Useful operating temperature range		°C	-	-65 to +204
Drop point		°C	232 min	260+
Worked penetration	@25°C		256 to 320	275
Bomb Oxidation pressure drop 100 hrs	@99°C	kPa (psi)	83 (12) max	27 (4)
Bomb Oxidation pressure drop 500 hrs	@99°C	kPa (psi)	172 (25) max	69 (10)
Oil separation 30 hrs	@177°C	% m	2.0 to 8.0	4.7
Water resistance test loss	@41°C	% m	20 max	0.5
Evaporation loss 22 hrs	@177°C	% m	10 max	4.3
Anti-friction bearing performance	@177°C	hrs	400 min	400+
Load carrying capacity .		kg	30 min	45
Copper corrosion 24 hrs	@100°C		Must pass	Passes
Bearing protection 2 days	@52°C		Must pass	Passes
Colour			-	Amber