

## AEROSHELL GREASE 7

AeroShell Grease 7 is an advanced multi-purpose grease, composed of a synthetic oil thickened with Microgel®, possessing good load carrying ability over a wide temperature range. It is inhibited against corrosion and has excellent resistance to water.

The useful operating temperature range is  $-73^{\circ}\text{C}$  to  $+149^{\circ}\text{C}$ .

### APPLICATIONS

AeroShell Grease 7 satisfies nearly all the airframe grease requirements of turbine engine aircraft and also those of piston engine aircraft provided that seal incompatibility does not occur. Most civil aircraft manufacturers approve AeroShell Grease 7 as a general purpose grease either by brand name or by specification. It is recommended for lubricating highly loaded gears, actuator screw mechanisms, etc., also for instrument and general airframe lubrication within the temperature range of  $-73^{\circ}\text{C}$  to  $+149^{\circ}\text{C}$ .

AeroShell Grease 7 contains a synthetic ester oil and should not be used in contact with incompatible seal materials. Refer to the General Notes at the front of this section.

AeroShell Grease 7 is a clay-based grease approved to MIL-PRF-23827C Type II; it should not be mixed with soap-based greases approved to MIL-PRF-23827C Type I.

### SPECIFICATIONS

<b>U.S.</b>	Approved MIL-PRF-23827C (Type II)
<b>British</b>	–
<b>French</b>	Equivalent DCSEA 354/A
<b>Russian</b>	–
<b>NATO Code</b>	G-354
<b>Joint Service Designation</b>	–

PROPERTIES	MIL-PRF-23827C Type II	TYPICAL
Oil type	Synthetic	Synthetic ester (Diester)

PROPERTIES	MIL-PRF-23827C Type II	TYPICAL
Thickener type	Clay	Microgel
Base oil viscosity @ $-40^{\circ}\text{C}$ @ $40^{\circ}\text{C}$ @ $100^{\circ}\text{C}$	mm <sup>2</sup> /s – – –	1150 10.3 3.1
Useful operating temperature range	$^{\circ}\text{C}$	– –73 to +149
Drop point	$^{\circ}\text{C}$	165min 260+
Worked penetration @ $25^{\circ}\text{C}$		270 to 310 296
Unworked penetration @ $25^{\circ}\text{C}$		200 min 283
Bomb oxidation pressure drop @ $99^{\circ}\text{C}$ 100 hrs 500 hrs	kPa kPa	70 max 105 max 62 96.5
Oil separation @ $100^{\circ}\text{C}$ , in 30 hrs	% m	5 max 3.0
Water resistance test loss @ $38^{\circ}\text{C}$	% m	20 max 0.80
Evaporation loss in 22 hrs @ $100^{\circ}\text{C}$	% m	2.0 max 0.5
Mean Hertz Load	kg	30 min 60
Antifriction bearing performance @ $121^{\circ}\text{C}$	hrs	– 2460
Copper corrosion 24 hrs @ $100^{\circ}\text{C}$ Bearing protection 2 days @ $52^{\circ}\text{C}$		Must pass Must pass Passes Passes
Colour	–	Buff