Technical Data

Performance you can trust

AEROSPEC® 100

Low temperature, semi-fluid aerospace grease

Product Overview

ROCOL® AEROSPEC 100 is a high performance, low temperature, semi-fluid aerospace grease designed to meet the demanding requirements of today's aerospace industry.

It gives outstanding operational performance and is particularly suited to extreme low temperatures.

ROCOL AEROSPEC 100 has been developed for the long term lubrication of rotary actuators and gearbox drives. In particular it was developed for the Airbus high lift system rotary actuator gearboxes.

Features and Benefits

- Excellent extreme temperature resistance ranging from -56°C to +120°C ensuring components are protected even on equipment working in extreme sub-zero conditions.
- ROCOL AEROSPEC 100 dramatically reduces the occurrence of fretting.
- ROCOL AEROSPEC 100 has extremely low start up and running torques even at temperatures down to -56°C.
- ROCOL AEROSPEC 100 has an extremely low oil bleed rate which ensures long lubricant 'wet' life.
- ROCOL AEROSPEC 100 has excellent shear stability for extended service life.

Directions for Storage and Use

- ROCOL AEROSPEC 100 has been designed for use in accordance with the equipment manufacturer's recommendations.
- Ensure all components are clean and free from any contaminants.
- It is recommended that the previous lubricant should be cleaned out of the equipment prior to filling with ROCOL AEROSPEC 100.
- The storage temperature should be controlled between +1°C and +40°C.
- Shelf life is 3 years from date of manufacture.

Specifications

ROCOL AEROSPEC 100 is approved for use on:

- Airbus 319, 320, 321, 330, 340 and 380
- Dowty propeller hubs
- Bombardier Dash 8

ROCOL AEROSPEC 100 also meets the following specifications:

- SAE AMS 3057
- ZF B831
- Developed from MIL-L-46000C
- Airbus CML No. 03GDB1

Pack Sizes

Pack Size	Part Code
500g	16511
4.5kg	16516
45kg	16517

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ROCOL A division of ITW Ltd

BS EN ISO 9001 Certificate No. FM 12448
BS EN ISO 14001 Certificate No. EMS 67596
OHSAS 18001 Certificate No. OHS 78173

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Property	Test Method	Result
Appearance	Visual	Light brown semi-fluid grease
Base Type	N/A	Synthetic fluid
Base Fluid Viscosity at -54°C	IP267, DIN51398	1000mPa/s
Base Fluid Viscosity at 40°C	IP 71	12cSt
Base Fluid Viscosity at 100°C	IP 71	4cSt
Thickener	N/A	Lithium soap
Temperature Range	N/A	-56°C to +120°C
Grease viscosity at -56°C	ZF 0000 701 252	900Pa/s
Grease viscosity at 20°C	ZF 0000 701 252	2100mPa/s
Shear stability – 1 hour	ZF 0000 701 253	2100mPa/s
Shear stability – 20 hours	ZF 0000 701 253	2000mPa/s
Flash Point (°C) COC	ASTM D93	>220°C

Values quoted above are typical and do not constitute a specification.

Safety Data Sheets

Safety data sheets are available for download from our website www.rocol.com or may be obtained from your usual ROCOL contact.

The information in this publication is based on our experience and reports from customers. There are many factors outside our control or knowledge which affect the use and performance of our products, for which reason it is given without responsibility.

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