

## AEROSPEC® 533

### Extreme low temperature silicone grease

#### Product Overview

ROCOL® AEROSPEC 533 is an extremely low temperature silicone grease.

ROCOL AEROSPEC 533 is designed to be widely used in pneumatic systems found in ships and aircraft, also guided weapons and automotive applications.

ROCOL AEROSPEC 533 is compatible with most plastics and rubbers (excluding silicone rubbers).

ROCOL AEROSPEC 533 demonstrates outstanding low temperature performance.

ROCOL AEROSPEC 533 provides excellent performance in the presence of water.

#### Features and Benefits

- ROCOL AEROSPEC 533 offers excellent performance in extreme temperatures ranging from -73°C to +150°C.
- ROCOL AEROSPEC 533 is a Lithium complex soap thickened lubricant with a silicone base fluid for excellent low temperature performance.
- ROCOL AEROSPEC 533 is compatible with most rubbers and plastics (excluding silicone rubber).
- ROCOL AEROSPEC 533 is highly resistant to water washout.

#### Directions for Storage and Use

- Ensure all components are clean and free from any contaminants before lubricating with AEROSPEC 533.
- It is recommended that previous lubricants are cleaned out of the equipment prior to filling with AEROSPEC 533.
- AEROSPEC 533 can be applied manually, by grease gun, keg pump or by other methods suitable for an NLGI No. 2 grease.
- Applicators must be suitable for dispensing silicone greases.
- The storage temperature should be controlled to between +1 and +40°C.
- Shelf life is 3 years from date of manufacture.

#### Specifications

AEROSPEC 533 is approved to:

- DEF STAN 91-56/3
- JSD XG 315
- NATO G-394
- NATO Stock Number: 9150 99 220-1438 (75g)
- NATO Stock Number: 9150 99 944-0603 (1kg)

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### Extreme low temperature silicone grease

| Property                            | Test Method        | Result                   |
|-------------------------------------|--------------------|--------------------------|
| Appearance                          | N/A                | Smooth off white grease  |
| Base Fluid Type                     | N/A                | Silicone                 |
| Viscosity at 40°C                   | IP 71              | 36 cSt                   |
| Viscosity at 100°C                  | IP 71              | 14 cSt                   |
| Thickener                           | N/A                | Lithium complex soap     |
| NLGI No.                            | IP 50, ASTM D217   | 2                        |
| Temperature Range                   | N/A                | -73°C to +150°C          |
| Oil separation 168 hrs at 40°C      | IP121              | 1.9%                     |
| Copper Corrosion                    | IP 112 – ASTM D130 | Pass (24 hours at 100°C) |
| Evaporation loss 22hrs at 150°C     | IP 215             | 4.5%                     |
| Oxidation Stability:                |                    |                          |
| Pressure Drop after 100hrs at 100°C | IP 142             | 7 kPa                    |
| Low Temp Torque Test:               |                    |                          |
| Starting Torque at -73°C            | IP 186             | 62.5mNm                  |
| Running Torque at -73°C (1 hour)    | IP 186             | 25.7mNm                  |
|                                     |                    |                          |

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](http://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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