

Performance you can trust

## SAPPHIRE® Lo-Temp 2

Triple life multi-purpose bearing grease especially for low temperatures

### Product Overview

ROCOL® SAPPHIRE Lo-Temp 2 heavy duty bearing grease is designed for the effective lubrication and protection of all types of ball, roller and plain bearings particularly when operating at extreme low temperatures.

SAPPHIRE Lo-Temp 2 typically lasts three times longer than conventional grease extending relubrication periods and reducing the volume of grease required. This results in a major cost saving over standard soap based greases.

SAPPHIRE Lo-Temp 2 offers excellent low start up and running torques particularly when operating at extreme low temperatures.

### Features and Benefits

- Excellent low temperature resistance from -50°C to +120°C.
- Revolutionary multi-complex soap technology provides outstanding EP performance of >800kg weld load far superior to conventional soap thickened lubricants.
- SAPPHIRE Lo-Temp 2 is highly resistant to oxidation providing greatly extended lubrication intervals – typically 3 times longer than conventional lubricants.
- SAPPHIRE Lo-Temp 2 demonstrates extremely low start up and running torques at very low temperatures for reduced drag.
- Excellent corrosion resistance to protect in humid, damp and even wet conditions.
- Highly tenacious lubricants, with outstanding film strength, ensure the lubricants remain in place even in severe operating conditions.

### Directions for Storage and Use

- SAPPHIRE Lo-Temp 2 can be applied manually, by grease gun, keg pump or by other methods suitable for an NLGI No. 2 grease.
- Compatible with other soap thickened greases. However, for best results the previous lubricant should be removed prior to application.
- The storage temperature should be controlled between +1°C and +40°C.
- Shelf life is 3 years from date of manufacture.

### Typical Applications

SAPPHIRE Lo-Temp 2 is fully approved for use by Jaguar Land Rover. Tox Number: 206205.

SAPPHIRE Lo-Temp 2 is designed for all types of ball, roller and plain bearings found in all types of industrial applications.

SAPPHIRE Lo-Temp 2 is particularly suitable for bearings operating in extreme low temperature applications such as door locks, electric motors and refrigeration fans on chillers and coolers.

SAPPHIRE Lo-Temp 2 is also suitable for use as a multipurpose replacement for SAPPHIRE 2 where the blue dye in SAPPHIRE 2 is unacceptable.

### Pack Sizes

| Pack Size      | Part Code |
|----------------|-----------|
| 400g cartridge | 12741     |
| 4.5kg          | 12745     |
| 18kg           | 12744     |

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| Property                      | Test Method         | Result                        |
|-------------------------------|---------------------|-------------------------------|
| Appearance                    | Visual              | Smooth beige grease           |
| NLGI No.                      | IP 50 – ASTM D217   | 2                             |
| Base Type                     | N/A                 | Semi-synthetic                |
| Base Fluid Viscosity at 40°C  | IP 71               | 69cSt                         |
| Base Fluid Viscosity at 100°C | IP 71               | 8.5cSt                        |
| Thickener                     | N/A                 | Multi-complex soap technology |
| Temperature Range             | N/A                 | -50°C to +120°C               |
| 4-ball Weld Load              | IP 239 – ASTM D2596 | >800kg                        |
| 4-ball Wear Load Index        | IP 239 – ASTM D2596 | 128kg                         |
| Copper Corrosion Test         | IP 112 – ASTM D130  | 1a                            |
| Corrosion Test – Emscor       | IP 220              | 0:0                           |
| Water Washout Test            | IP 215 – ASTM D1264 | 2%                            |
| Starting Torque @ -40°C       | IP 186              | 700g. cm                      |
| Running Torque @ -40°C        | IP 186              | 450g. cm                      |
| Starting Torque @ -50°C       | IP 186              | 1137g. cm                     |
| Running Torque @ -50°C        | IP 186              | 950g. cm                      |

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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