

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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