Technical Data

Performance you can trust

SAPPHIRE® Premier

Multi-purpose EP bearing grease fortified with PTFE

Product Overview

ROCOL® SAPPHIRE Premier high performance bearing grease is designed for the effective lubrication and protection of all types of ball, roller and plain bearings.

SAPPHIRE Premier is a truly multi-purpose grease, fortified with PTFE, for an extensive range of applications including low temperatures, high temperatures and high speed. It also makes an ideal electrical contact grease.

Features and Benefits

- Excellent extreme temperature resistance ranging from -50°C to +200°C ensures components are protected even on equipment working constantly in extreme sub-zero conditions.
- Lithium complex soap technology and EP additives, including PTFE, provides outstanding high load performance.
- Fully synthetic base oil leaves minimal residues providing long life even at elevated temperatures.
- SAPPHIRE Premier is highly resistant to oxidation, providing extended lubrication intervals whilst reducing equipment failure, downtime and lubricant usage.
- Excellent corrosion resistance to protect in humid, damp and even wet conditions.
- Outstanding high speed performance for most applications found in industry.
- PTFE has an extremely low coefficient of friction and its inclusion in SAPPHIRE Premier reduces stick-slip on start-up ensuring a smooth controlled movement.
- Prevents wear and corrosion on switchgear and electrical contacts to enhance performance.

Directions for Storage and Use

- SAPPHIRE Premier 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 Premier is designed for ball, roller, plain and linear bearings found in all types of industrial applications. Particularly suitable for high speed bearings and those subjected to extremes of temperature.

It is ideal for all industries where a truly versatile high performance lubricant is required such as steelworks, water treatment, quarries, mining, marine, docks, agriculture, construction, textile, brick and tile works and most other industries.

SAPPHIRE Premier excels in applications such as electric motors, oven and refrigeration fans, oven bearings, chiller and cooler bearings, Injection and rotary moulders, presses, robots, mechanical handling, palletisers and similar applications where bearings, pins, bushes, slides etc. are subjected to extreme conditions.

Pack Sizes

Pack Size	Part Code
380g cartridge	12471
4kg	12475
18kg	12474
170kg	12479

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Property	Test Method	Result
Appearance	Visual	Smooth beige grease
NLGI No.	IP 50 – ASTM D217	2
Base Type	N/A	Synthetic hydrocarbon fluid
Base Fluid Viscosity at 40°C	IP 71	48cSt
Base Fluid Viscosity at 100°C	IP 71	8cSt
Thickener	N/A	Lithium complex soap
Solids	N/A	PTFE
Temperature Range	N/A	-50°C to +200°C
4-Ball:		
Weld Load	IP 239 – ASTM D2596	355kg
Mean Hertz Load	IP 239 – ASTM D2596	68kg
Evaporation Loss at 175°C	IP 183 – ASTM D972	4.1%
Copper Corrosion Test	IP 112 – ASTM D130	1b

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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