

Technical Data



Performance you can trust

SAPPHIRE® UNILUBE

Multi-purpose EP bearing grease fortified with PTFE in an automatic lubricator

Product Overview

ROCOL® SAPPHIRE UNILUBE is a gas operated automatic lubricator containing the high performance SAPPHIRE Advance 2.

ROCOL SAPPHIRE Advance 2 high performance bearing grease is designed for the effective lubrication and protection of all types of ball, roller and plain bearings.

SAPPHIRE Advance 2 is a truly multi-purpose grease, fortified with PTFE, for an extensive range of applications particularly high speeds such as electric motors and fan bearings.

Features and Benefits

- Excellent extreme temperature resistance – ranging from -30°C to +160°C.
- Lithium complex soap technology and EP additives, including PTFE, provides an outstanding high load, EP performance of 560kg that is superior to standard soap thickened lubricants.
- SAPPHIRE Advance 2 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 Advance 2 reduces stick-slip on start up ensuring a smooth controlled movement.

Directions for Storage and Use

- Prime the mounting point with SAPPHIRE Advance 2 prior to fitting the SAPPHIRE UNILUBE.
- Screw the unit into a 1/4" BSP female fitting attached to the lubrication point.
- The storage temperature should be controlled between +1°C and +40°C.
- Shelf life is 3 years from date of manufacture.

Typical Applications

SAPPHIRE Advance 2 is designed for all types of ball, roller and plain bearings found in all types of industrial applications. Particularly suitable for high speed bearings and high load conditions.

SAPPHIRE Advance 2 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 Advance 2 excels in applications such as electric motors, oven and refrigeration fans, robots, mechanical handling, palletisers and similar applications where bearings, pins, bushes, slides etc. are subjected to extreme conditions.

Pack Sizes

Pack Size	Part Code
125ml	13012

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ROCOL A division of **ITW** Ltd



BS EN ISO 9001
Certificate No. FM 12448



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Property	Test Method	Result
Appearance	Visual	Smooth brown grease
NLGI No.	IP 50 – ASTM D217	2
Base Type	N/A	Severely refined mineral oil
Base Fluid Viscosity at 40°C	IP71 – ASTM D445	145cSt
Base Fluid Viscosity at 100°C	IP71 – ASTM D445	15cSt
Thickener	N/A	Lithium complex soap
Solids	N/A	PTFE
Temperature Range	N/A	-30°C to +160°C
UNILUBE Operating Range	N/A	-20°C to +60°C
4-Ball Weld Load	IP 239 – ASTM D2596	560kg
4-Ball Mean Hertz Load	IP 239 – ASTM D2596	93kg
Water Washout Test	IP 215 – ASTM D1264	<2%
Copper Corrosion Test	IP 112 – ASTM D130	1b
Maximum UNILUBE Diameter	N/A	58mm
Maximum UNILUBE Length	N/A	117mm

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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TECHNICAL DATA - ROCOL UNILUBE SPECIFICATIONS

- Supplied fully assembled and ready to use - no separate tools required
- Charge the lubrication point and any remote piping with the same lubricant as supplied in the UNILUBE
- Rotate the top of the UNILUBE to the required monthly frequency
 - Then tightly screw the UNILUBE, by hand, into an R1/4 (1/4 BSP) female connection
- Do not remove the UNILUBE from its connection point once activated as the unit will lose pressure and will have to re-pressurise once it has been reinstalled
- The unit can be mounted remotely up to 1 metre away (horizontal to, or above, application point) with 6mm bore (8mm O.D.) nylon airline tubing. Reduce tube length to 0.5 metre if pumping uphill
- The ROCOL UNILUBE is a gas generated, disposable, automatic lubricator
 - Gas is generated by a sodium azide-free battery
- Ingress protection to IP 68
- ROCOL UNILUBE fitting – R1/4 (1/4 BSP) male
- Dispensing:
 - Variable from 1 – 12 months in monthly increments - Settings can be altered during dispensing period
 - The unit can be switched off during dispensing period
 - Capacity – 125 ml - Non-refillable
 - Approximate sizes - Maximum diameter – 58mm, Maximum length – 117mm
- UNILUBE operating temperature range -20°C to +60°C
 - Dispensing periods indicated at +20°C unless otherwise specified
 - Higher temperatures can increase lubricant flow rate (reducing activator time setting)
 - Lower temperatures can reduce lubricant flow rate (increasing activator time setting)
- 5 bar maximum pressure at ROCOL UNILUBE outlet
- The ROCOL UNILUBE operates in any direction including fully submerged
- ATEX certified:

DEKRA 12 ATEX0006 X

II 1G Ex ia IIC T6

II 1D Ex iaD 20 T85°C

I M1 Ex ia I

IECEx DEK 11.0103X

Ex ia IIC T6 Ga

Ex ia IIIC T85 °C Da

Ex ia I Ma

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