

## 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 ¼” 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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| 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 +55°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](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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## 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 (¼ 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 oil filled UNILUBE is supplied with an integral oil retaining valve and can be recognized by a red cap
- The ROCOL UNILUBE is a gas generated, disposable, automatic lubricator
  - Gas is generated by a sodium azide-free battery
- Ingress protection to IP 68
- The SAPPHIRE UNILUBE is filled with SAPPHIRE Advance 2 grease
- The FOODLUBE UNILUBE is filled with FOODLUBE Premier 1
- The FOODLUBE Chain Fluid UNILUBE is filled with FOODLUBE Chain Fluid
- ROCOL UNILUBE fitting – R1/4 (¼ BSP) male
- Remote mount with 6mm bore nylon tubing up to 1 mtr away (0.5 mtrs if pumping uphill)
- 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 +55°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

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