



## SAPPHIRE® Aqua-Sil Hi-Load

Highly resistant silicone grease, with molybdenum disulphide, for long term lubrication

### Product Overview

ROCOL® SAPPHIRE Aqua-Sil Hi-Load is a smooth, grey/black, silicone grease that has been designed for the lubrication of seals, 'O' rings, slides, slow speed bearings and other applications.

SAPPHIRE Aqua-Sil Hi-Load has a high dielectric strength, is resistant to chemicals, oils and gases and can be used as an electrical filling compound.

SAPPHIRE Aqua-Sil Hi-Load has good load carrying and is ideal for long term lubrication at extreme operating temperatures.

**Water Regulations Advisory Scheme – Approved Product – Approval Number: 1203533**

### Features and Benefits

- Excellent wide temperature resistance – ranging from -40°C to +200°C and it can protect up to +220°C for short periods.
- Outstanding resistance to chemicals oils and gases far superior to standard greases.
- Excellent resistance to water, including salt water ensuring components are protected even in submerged conditions.
- SAPPHIRE Aqua-Sil Hi-Load is approved for use in both hot and cold potable (drinking) water.
- Suitable for use as a rubber lubricant for most rubbers (not suitable for silicone rubber).
- Extremely long wet life reducing re-lubrication frequencies and in some cases can be used as a lifetime lubricant.
- High dielectric strength making it ideal for use as an electrical filling compound.

### Directions for Storage and Use

- SAPPHIRE Aqua-Sil Hi-Load can be applied manually, by a silicone grease gun, or by other methods suitable for use with silicone greases containing solid additives.
- For best results the previous lubricant should be removed prior to application.
- DO NOT USE ON SILICONE RUBBER.
- The storage temperature should be controlled between +1°C and +40°C.
- Shelf life is 3 years from date of manufacture.

### Typical Applications

SAPPHIRE Aqua-Sil Hi-Load is designed for long term, and possibly lifetime, lubrication depending on application.

SAPPHIRE Aqua-Sil Hi-Load is particularly suitable as a rubber assembly grease on seals, 'O' rings, gaskets washers, valves and valve seals in medium to heavy duty applications.

- SAPPHIRE Aqua-Sil Hi-Load is ideal for use where a high performance, water and chemical resistant lubricant is required such as Water Authorities, Gas & Plumbing, and most other industries where a multi-purpose water and chemical resistant silicone grease is required.

### Pack Sizes

Pack Size	Part Code
500g	12263
5kg	12266
50kg	12268





## SAPPHIRE® Aqua-Sil Hi-Load

Highly resistant silicone grease, with molybdenum disulphide, for long term lubrication

Property	Test Method	Result
Appearance	Visual	Smooth, grey/black grease
NLGI No.	IP 50 – ASTM D217	3 / 4
Base Type	N/A	Silicone oil
Base Fluid Viscosity at 40°C	IP 71	700cSt
Base Fluid Viscosity at 100°C	IP 71	300cSt
Thickener	N/A	Inorganic colloid
Solids	N/A	Molybdenum disulphide
Temperature Range	N/A	-40°C to +200°C (+220°C short periods)
Evaporation Loss 24 hrs at 100°C	N/A	<0.5%
Oil Separation 24 hrs at 100°C	IP 121	<2.5%
Copper Corrosion Test 24 hrs at 100°C	IP 112 – ASTM D130	No stain
Oxidation Resistance (Pressure Drop)	IP 142	Less than 1 psi
Dielectric Strength	N/A	30kv/mm
Volume Resistivity	N/A	3 x 10 <sup>11</sup> ohm/m
DmN Factor	N/A	100,000

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.

Issue: 1 Date: 01-11

T +44 (0) 113 232 2600  
F +44 (0) 113 232 2740  
E [customer-service@rocol.com](mailto:customer-service@rocol.com)  
[www.rocol.com](http://www.rocol.com)

ROCOL House, Swillington, Leeds LS26 8BS

Registered Company No. 559693 VAT No. 742 0531 67  
Registered Office: Admiral House, St Leonard's Road, Windsor, Berkshire SL4 3BL

ROCOL A division of *ITW* Ltd



BS EN ISO 9001  
Certificate No. FM 12448



BS EN ISO 14001  
Certificate No. EMS 67596



OHSAS 18001  
Certificate No. OHS 78173



INVESTORS  
IN PEOPLE