

Technical Data



Performance you can trust

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: 1704534

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.

Specifications

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

For pack sizes and part codes please visit:
www.rocol.com or email: customer.service@rocol.com

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F +44 (0) 113 232 2740
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Property	Test Method	Result
Appearance	Visual	Black grease
NLGI No.	IP 50 – ASTM D217	3 / 4
Base Type	N/A	Silicone oil
Base Fluid Viscosity at 40°C	IP71	700cSt
Base Fluid Viscosity at 100°C	IP71	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	ASTM D 972	<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	BS 2918:1957	30 kv/mm
Volume Resistivity	BS 903: 1982	5.5 x 10 ¹¹
DmN Factor	N/A	100,000

Values quoted above are typical and do not constitute a specification.

*The WRAS Approved Product Certification Logo is owned by WRAS Ltd.

Safety Data Sheets

Safety data sheets are available for download from our website www.rocol.com or contact ROCOL below.

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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9001
Quality
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AS/EN
9100 Series
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ISO
14001
Environmental
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OHSAS
18001
Occupational
Health and Safety
Management

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