Technical Data

Performance you can trust

SAPPHIRE® Aqua-Sil

WRAS APPROVED MATERIAL

Highly resistant silicone grease for long term lubrication

Product Overview

ROCOL® SAPPHIRE Aqua-Sil is a translucent, non-toxic grease that has been designed for the lubrication of seals, 'O' rings, slides, slow speed bearings and other similar light to medium duty applications.

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

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 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).
- Commonly used for the assembly of rubber seals, tap washers and 'o' rings.
- Ideal lubricant for most types of plastics.
- 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 can be applied manually, by a silicone grease gun, or by other methods suitable for use with silicone greases.
- 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 is designed for long term, light, and possibly lifetime, lubrication depending on application.

SAPPHIRE Aqua-Sil is particularly suitable as a rubber assembly grease on seals, 'O' rings, gaskets and washers.

SAPPHIRE Aqua-Sil 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.

SAPPHIRE Aqua-Sil excels in applications such as the assembly or repair of pneumatic/hydraulic valves & cylinders, tap & shower washers, valve seals, toys and many other applications where rubbers or plastics require a light, colourless, non-toxic lubricant for long term or possible lifetime lubrication.

Pack Sizes

For pack sizes and part codes please visit:

www.rocol.com or email: customer.service@rocol.com

T +44 (0) 113 232 2600
F +44 (0) 113 232 2740
E customer.service@rocol.com
www.rocol.com
ROCOL House, Swillington, Leeds, LS26 8BS
Registered Company No 559693 VAT No 742 0531 67
Registered Office: Nexus House, Station Road, Egham, Surrey, TW20 9LB

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Property	Test Method	Result
Appearance	Visual	White, translucent 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
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%
Resistance to Water	DIN 51807	Fully resistant '0' rating
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	5.5×10^{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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