



## SAPPHIRE® Aqua-Sil

Highly resistant silicone grease for long term lubrication



### Description & Applications

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.

It is designed for long term, light and possibly lifetime lubrication depending on application. Ideal for use where 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.

### Applications

- Rubber assembly grease on seals, 'O' rings, gaskets and washers.
- Assembly or repair of pneumatic/hydraulic valves & cylinders, tap & shower washers, valve seals, toys
- Applications where light, colourless, non-toxic lubricant for long term lubrication

### Usage Guidance

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.

### Storage Guidance

The storage temperature should be controlled between +1°C and +40°C. Shelf life is 3 years from date of manufacture.

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### Features and Benefits

- Wide temperature resistance, ranging from -40°C to +200°C and 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.
- 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).
- 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

### Approvals and Certifications

- Water Regulations Advisory Scheme - Approved Material - Approval Number: **2208582**
- NSF H1 registered - 172564
- Halal certified
- Kosher certified

### Pack Sizes

Part Code	Pack Size
12251	85 g
12253	500 g
12256	5 kg
12259	185 kg



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## SAPPHIRE Aqua-Sil

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Parameter	Test Method	Value
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	IP 71	700 cSt
Base fluid viscosity at 100 °C	IP 71	300 cSt
Thickener	N/A	Inorganic colloid
Temperature range	N/A	-40 °C to +200 °C (+220 °C short periods)
Evaporation loss (24hrs at 100 °C)	ASTM D972	< 0.5%
Oil separation (24hrs at 100 °C)	IP 121	< 2.5%
Resistance to water	DIN 51807	Fully resistant '0' rating
Copper corrosion	IP 112 - ASTM D130	No stain
Oxidation resistance	IP 142	< 1psi
Dielectric strength	BS 2918:1957	30 kv/mm
Volume resistivity	BS 903:1982	$5.5 \times 10^{11}$
DmN factor	N/A	100,000

## Safety Datasheets

These are available at <https://www.rocol.com/datasheets>. For further assistance, please contact us via the ROCOL website or using the details below.

## Note

The information in this Technical Datasheet is informed by our experience and feedback from industry. There are many variables outside our control or knowledge which affect the use and performance of our products, for which reason it is given without responsibility. Values quoted are typical and do not constitute a specification.

If you'd like to discuss the suitability of any ROCOL solution for your system, please get in touch.

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