

### Hylosil 103

Amine curing RTV silicone sealant

#### Description

Hylosil 103 is a non-corrosive, low odour (when compared with Acetoxy based sealants), Room Temperature Vulcanising (RTV) silicone compound. It is a high performance engineering grade which is used in the automotive industry and for general manufacturing. It can also be used for a variety of applications and is particularly suitable for high strength applications.

Hylosil 103 has good resistance to oils and aqueous anti-freeze agents.

Unlike general-purpose silicone sealants, Hylosil Silicone Sealant 103 contains no solvents and does not give off acetic acid during cure.

#### Typical Properties, Uncured Product

<b>Colour</b>	Transparent
<b>Consistency</b>	Non- Slump Paste
<b>Cross Linking System</b>	Amine
<b>Specific Gravity DIN 53479</b>	1.02
<b>Extrusion Rate 3mm orifice @ 60 psi (BS 3712: Part 1)</b>	45 g/min
<b>Skin Time (Minutes) @ 55% RH (BS 5889)</b>	10
<b>Cure Rate @ 25°C (77°F) and 60% RH</b>	3mm per 24 hours

#### Cured Product

<b>Tensile Strength (N/mm<sup>2</sup>) DIN 53505, S3A.</b>	2.5
<b>Elongation at Break (%) DIN 53504, S3A</b>	350
<b>Modulus at 100% Elongation DIN 53504, S3A.</b>	1.1 N/mm <sup>2</sup>
<b>Hardness (Shore A) DIN 53505</b>	25 <sup>0</sup>
<b>Tear Strength (N/mm<sup>2</sup>) ASTM D 624, Form B</b>	7
<b>Typical temperature Range</b>	-50°C to 180°C (-58°F to 356°F) unaltered. Usable to 240°C (464°F)

Information given in this publication is based upon technical data gained in our own and other Laboratories and is believed to be true. However the material is used in conditions beyond our control thus we can assume no liability for results obtained or damages incurred through the application of the data present herein.

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	Product name	Hylosil 103 Issue 8	

### Dielectric Properties

<b>Volume Resistivity Ohm.cm DIN 53482 determined dry at 23°C (73.4°F) determined wet at 60°C (140°F)</b>	5 (x10 <sup>14</sup> ) 9 (x10 <sup>13</sup> )
<b>Dielectric Strength (kv/mm) DIN 53481</b>	17
<b>Tracking Resistance DIN 53480</b>	KA 3 c
<b>Dielectric Constant (epilson) at room temperature in a frequency range of 50Hz to 5MHz DIN 53483</b>	3.0 - 2.9
<b>Dissipation Factor (tan) at room temperature in a frequency range of 50Hz to 5Mhz DIN 53483</b>	0.01 - 0.005

### Instructions for Use

Ensure both surfaces to be bonded are dry and free from contamination such as oil or grease. Apply a bead directly onto one surface. Once applied, the joint should be assembled without delay.

Care should be taken to ensure any excess compound does not extrude internally and foul any internal oil-ways or other channels and cause blockages.

Any excess external product can be wiped away with a damp cloth.

### Typical Applications

Due to its good resistance to oils, Hylosil 103 is ideal for use as a flexible gasket or flange sealant, for use in automotive and general engineering applications.

### Handling and Safety

Product is irritating to skin and eyes – please product safety data sheet for more information.

Product should be stored between 5°C to 25°C (41°F to 77°F).

### Packaging

Hylosil 103 is available in 300ml (10.14fl.oz) cartridges and 17 litre (574.84fl.oz) pails.

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	Product name	Hylosil 103 Issue 8	