

## AS1723

### 1 Part Non-Corrosive Neutral Cure Adhesive Sealant and Potting Material (Electronic Grade)

#### Description

This is a non-corrosive, neutral cure, 1-part, RTV (Room Temperature Vulcanising) silicone adhesive sealant. It is one in a range of Alkoxy cure products which are solvent free. It exhibits excellent primerless adhesion to many substrates and cures at room temperature when in contact with atmospheric moisture to form a tough rubber. This product will not corrode copper or its alloys and is suitable for use with electronic components.

#### Key Features

- Self levelling
- Low odour
- Non corrosive
- Suitable for sensitive substrates

#### Application

Suitable for sensitive substrates

#### Use and Cure Information

This product is a ready for use 1 Part system. If supplied in cartridges it can be applied using either manual or pneumatic dispensing guns. It can also be applied from bulk containers using conventional drum dispensing equipment.

All surfaces to which the sealant is to be applied should be clean, dry and free from grease, dirt, and loose material. Priming of surfaces is not normally required. If using as an adhesive, it should be applied to one clean surface and the other clean surface brought into contact with it within the tack free time stated opposite. For optimum bond strength, the thickness of the sealant joint should be a minimum of 1 mm.

The sealant will cure upon exposure to atmospheric moisture, ideally between 20 to 30 °C and 40% to 70% Relative Humidity. Time taken for cure will depend on the thickness of the joint, humidity and temperature. Joints should be left undisturbed for at least 24 hours, but preferably longer to effect sufficient depth of cure. Full cure requires 7 days.

“For pneumatic dispensing of 310 ml cartridges, the recommended pressure is 2.25 to 3.45 bar (40 to 50 psi). Dispensing pressure above the recommended limits may lead to gas bypassing the piston, causing spluttering at the nozzle and poor bead quality”

It is important to check the compatibility in preliminary tests if unknown substrates are used.

#### Health & Safety

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Safety Data Sheets available on request.

#### Packaging

CHT Adhesives are available in a variety packaging including cartridges and bulk containers. Please contact our sales department for more information.

Revision Date 11 Jun 2021  
Revision No 2  
Download Date 29 Nov 2021

Property	Test Method	Value
<b>Uncured Product</b>		
Appearance		<b>Viscous liquid</b>
Cure Profile		<b>23+/-2°C and 50+/-5% humidity</b>
Cure Through to 3 mm Depth		<b>24 hr</b>
Cure Type		<b>Alkoxy</b>
Rheology		<b>Self Level</b>
Self Bonding		<b>Yes</b>
Tack Free Time / Skin Formation at 23°C/73°F		<b>11 min</b>
Viscosity Mixed	Brookfield	<b>72000 cP</b>
<b>Cured Product</b>		
<b>7 days at 23+/-2°C and 50+/-5% humidity</b>		
100% Modulus (N/mm <sup>2</sup> )		<b>0.43 MPa / 62 psi</b>
Color		<b>Translucent</b>
Density	BS ISO 2781	<b>1.03 g/cm<sup>3</sup></b>
Elongation at Break	ISO 37	<b>216 %</b>
Hardness Shore A	ASTM D 2240-95	<b>28</b>
Linear Coefficient of Thermal Expansion (ppm/°C)		<b>295 ppm/°C</b>
Max Working Temp		<b>200 °C / 392 °F</b>
Min Working Temp		<b>-50 °C / -58 °F</b>
Tensile Strength	ISO 40	<b>1 N/mm<sup>2</sup> / 145 psi</b>
Thermal Conductivity		<b>0.2 W/mK</b>
Volume Coefficient of Thermal Expansion (ppm/°C)		<b>884 ppm/°C</b>
Youngs Modulus (N/mm <sup>2</sup> )		<b>0.3 N/mm<sup>2</sup> / 44 psi</b>
<b>Electrical Properties</b>		
Dielectric Constant	ASTM D-150	<b>2.72</b>
Dielectric Strength (V/mil)		<b>&gt;457 V/mil</b>
Dielectric Strength kV/mm	ASTM D-149	<b>&gt;18 kV/mm / 0 V/mil</b>
Dissipation Factor	ASTM D-150	<b>0.0011</b>
Volume Resistivity (Ohms cm)	ASTM D-257	<b>4.71E+15 ohms cm</b>
<b>Storage</b>		
Max Storage Temperature		<b>40 °C / 104 °F</b>
Shelf Life		<b>12 mths</b>

The content set out in the technical data sheet does not contain information upon which you should rely. It is provided for general information purposes only and does not constitute a product specification. You must obtain professional or specialist advice before taking any action based on the information provided in the technical data sheet.

CHT make reasonable efforts to ensure that information set out in the technical data sheet is complete, accurate, and up-to-date. CHT do not, however, make any representations, warranties or guarantees (whether express or implied) that information set out in the technical data sheet is complete, accurate, or up-to-date or that the product will be suitable for your requirements. You should carry out your own testing to determine the applicability of such information and whether the product will be suitable. CHT reserve the right to modify the technical data sheet at any time.

The CHT technical service department is available to offer further information and advice and should it be needed to look at modifying current products or custom formulate a new one to meet your specific requirements. Please contact the technical service department.

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