# **TECHNICAL DATA SHEET**



# AS1420 1 Part Non-Corrosive Neutral Cure Adhesive Sealant and Potting Material (Electronic Grade)

Property

Appearance

**Uncured Product** 

#### Description

This is a heat cured, non-corrosive, neutral cure, 1-part, silicone adhesive sealant. It is one in a range of Addition cure products which are solvent free. It exhibits primerless adhesion to many substrates when cured at temperatures above 100°C. It cures to form a very tough resilient silicone elastomer. This product will not corrode copper or its alloys and is suitable for use with electronic components.

### Key Features

- Fast heat cure
- Excellent thermal conductivity
- Non corrosive
- Tough protective rubber

#### Application

#### Electronics

#### Use and Cure Information

This product is a ready to use 1-Part system. It is recommended that liquid versions be thoroughly mixed prior to use, particularly thermally conductive products which are supplied in tubs or pails. Ensure that all surfaces of the substrate are clean and degreased. The work area should be free of contaminants such as organic compounds of sulphur, phosphorus, nitrogen and tin, which act as catalyst poisons.

The rate of cure will depend on how long it takes for the sealant to reach the required curing temperature. Small beads of 1 to 2mm diameter, used as formed-in-place gaskets, can be cured quickly with hot air guns e.g. paint stripper types. With larger sections of sealant or when using as an encapsulant, cure times will increase and the use of an oven will be needed. Increasing the temperature will reduce cure times and maximum cure temperature should not exceed 200°C. All times are based on the actual time in an air-circulating oven at the stated temperature. Note: Improved adhesion is achieved by post cure at 120 to

150°C for 1 to 2 hours. "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"

#### 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.

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	1 hour at 150°C, 2 hours at 100°C
	Addition Heat Cure
	Flowable
	Yes
Brookfield	43000 cP
	Grey
BS ISO 2781	2.06 g/cm3
ISO 37	70 %
ASTM D 2240-95	67
	187 ppm/°C
	2 %
	260 °C / 500 °F
	-50 °C / -58 °F
190 37	3.1 N/mm2 / 450 psi
130 37	•
	1.38 W/mK
	562 ppm/°C
ASTM D-150	6
	BS ISO 2781 ISO 37 ASTM D 2240-95 ISO 37

**Test Method Value** 

**Viscous liquid** 

# Dielectric Constant ASTM D-150 6 Dielectric Strength (V/mil) 571 V/mil Dielectric Strength kV/mm ASTM D-149 22.5 kV/mm / 572 V/mil Volume Resistivity (Ohms cm) ASTM D-257 7.7E+15 ohms cm

## Storage

Max Storage Temperature	15 °C / 59 °F
Min Storage Temperature	-5 °C / 23 °F
Shelf Life	6 mths