TECHNICAL DATA SHEET



30 °C / 86 °F

12 mths

SilSo Cool 21311 2-part thermally conductive encapsulant

Description	Property	Test Method	Value
This is a two-component, 100% silicone solids, thermally	Uncured Product		
conductive elastomer designed for electronic potting and roller	Appearance		Viscous liquid
applications.	Color A		Off white
Key Features	Color B		Gray
Flame retardantHigh thermal conductivity	Density A	BS ISO 2781	2.82
Low viscosity	Density B	BS ISO 2781	2.82
Electrically insulating	Mix Ratio By Weight		1:1
Application	Pot Life mins at 23°C/73°F		>50 mins
TIM automotive, EV and electronics potting	Self Bonding		No
Use and Cure Information	Viscosity A	Brookfield	23900 cP
IMPORTANT:	Viscosity B	Brookfield	22000 cP
The 'A' part of the product contains the platinum catalyst, great care should be taken when using automatic dispensing	Viscosity Mixed	Brookfield	23000 cP
equipment. Please ensure that it is not contaminated by residual	Cured Product		
hydride containing rubber in the dispensing equipment, as curing will result. If in doubt, it's advised to thoroughly purge the	24 hours at 23+/-2°C		
equipment with a suitable hydrocarbon solvent or silicone fluid.	Color		Gray
Mixing	Hardness Shore A	ASTM D 2240-95	45
Both the 'A' and 'B' parts should be well stirred to ensure the	Max Working Temp		200 °C / 392 °F
material is uniform and any settled the fillers have been remixed.	Min Working Temp		-50 °C / -58 °F
In order to achieve optimum performance, the same "A" and "B" side lot number should be used.	Thermal Conductivity		2.3 W/mK
Place the required amount of 'A' and 'B' parts by weight at the mix	Electrical Properties		
ratio shown opposite, in a clean plastic or metal container of approximately 3 times their volume, and mix until the color of the	Volume Resistivity (Ohms cm)	ASTM D-257	3.8E+14 ohms cm

components should be degassed before processing.

Recommended vacuum conditions are 30-50 mbar intermittently over 5-10 minutes. Cast the mixture either by gravity or pressure injection.

Storage

Shelf Life

Max Storage Temperature

Inhibition of Cure

Great care must be taken when handling and mixing all addition cured silicone elastomer systems, ensuring that all the mixing tools (vessels and spatulas) are clean and constructed in materials which do not interfere with the curing mechanism. The cure of the rubber can be inhibited by the presence of compounds of nitrogen, sulphur, phosphorus and arsenic; organotin catalysts and PVC stabilizers; epoxy resin catalysts and even contact with materials containing certain of these substances e.g. molding clays, sulphur vulcanized rubbers, condensation cure silicone rubbers, onion and garlic.

Curing Conditions

The data offers a guide to the rate of cure at various temperatures, mixing of the components at temperatures between 15 and 25°C is recommended to ensure adequate pot life for degassing and handling. The pot life can be extended to several hours by chilling the components before mixing.

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

Health & Safety

Safety Data Sheets available on request.

mixture is uniform. For best results, we recommend degassing. Degas by intermittent evacuation, the larger volume of the mixing

automatic dispensing with static mixing head, the two

vessel helps prevent overflow during this operation. In the case of

Revision Date 12 Feb 2024

Revision No

Download Date 19 May 2024

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

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.