## **TECHNICAL DATA SHEET**



## SilSo Cool 21005 2 part silicone gap filler

Description	Property	Test Method	Value
This is a two part, thermally conductive, thixotropic material, which cures at room temperature or can be accelerated with heat.	Uncured Product		<b>T</b> 1.1
It is specifically formulated to give low hardness and resistance to	Appearance		Thixotropic paste
slump and features low and high temperature mechanical and	Color A		Blue
chemical stability. It remains flexible and has a natural low level	Color B		White
tack, ideal for applications where a strong mechanical or	Density A	BS ISO 2781 BS ISO 2781	3.10 3.06
chemical bond is not required. It has a controlled volatile content and an easy mix ratio by volume or weight.	Density B Extrusion Rate A Part	BS ISU 2781	
Key Features	Extrusion Rate B Part		360 g/min
Thermally conductive	Max Cure Mins @ 100 °C		333 g/min 30 mins
<ul> <li>Soft material to compensate for CTE mismatch</li> </ul>	Mix Ratio By Weight		1:1
Flame resistant	Pot Life mins at 23°C/73°F		31 mins
Electrically insulating	Specific Gravity A		3.10
Application	Specific Gravity B		3.06
TIM gap filler Use and Cure Information	opeenie dravity B		0.00
IMPORTANT:	Cured Product		
The 'A' part of product	24 hours at 23+/-2°C		
contains the platinum catalyst; great care should be taken when	CTE Volumetric ppm/°C		53 ppm/°C
using automatic dispensing equipment. Please ensure that it is	Color		Blue
not contaminated by residual hydride containing rubber in the	Elongation at Break	ISO 37	50 %
dispensing equipment, as curing will result. If in doubt, it's advised to thoroughly purge the equipment with a suitable	Hardness Shore 00	ASTM D 2240-95	67
hydrocarbon solvent or silicone fluid.	Linear Coefficient of Thermal		18 ppm/°C
Mixing	Expansion (ppm/°C)		
This gap filler can be supplied in bulk containers for use with	Max Working Temp Min Working Temp		200 °C / 392 °F -50 °C / -58 °F
automatic mixing equipment or in a twin cartridge system and	Tensile Strength	ISO 37	
static mixer to provide for easy application and mixing.	•	150 37	0.33 N/mm2 / 48 psi
Inhibition of Cure	Thermal Conductivity		3.68 W/mK
Great care must be taken when handling and mixing all addition	Electrical Properties		
cured silicone elastomer systems, ensuring that all the mixing tools (vessels and spatulas) are clean and constructed in	Dielectric Constant	ASTM D-150	7.55
materials which do not interfere with the curing mechanism. The	Dielectric Strength kV/mm	ASTM D-149	7.6 kV/mm / 193 V/mil
cure of the rubber can be inhibited by the presence of compounds	Dissipation Factor	ASTM D-150	0.0035
of nitrogen, sulphur, phosphorus and arsenic; organotin catalysts	Volume Resistivity (Ohms	ASTM D-257	1.4E+13 ohms cm
and PVC stabilizers; epoxy resin catalysts and even contact with materials containing certain of these substances e.g. moulding	cm)	A31101 D-237	1.4E+13 011115 CIII
clays, sulphur vulcanised rubbers, condensation cure silicone	Storage		
rubbers, onion and garlic.	Max Storage Temperature		30 °C / 86 °F
Curing Conditions	Shelf Life		12 mths
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

Health and Safety

Safety Data Sheets available on request.

## Packaging

CHT Gap Fillers are available in a variety packaging including bulk containers. Please contact our sales department for more information.

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