## **TECHNICAL DATA SHEET**



## SG500 Silicone Grease

<b>Description</b> This is a highly thermally conductive silicone grease / compound. This property together with a low moisture and metallic impurity content makes it a suitable heat sink product for a wide variety of applications within the electronics and electrical industries.	Property Product Bleed % Color	Test Method	0.2 % White
Key Features   Thermally conductive   Low volatility   Good dielectric and isolating properties   Low bleed even at elevated temperatures   Application   Thermally Conductive   Use and Cure Information	Density Max Storage Temperature Max Working Temp Min Working Temp Rheology Silicone Yes/No Thermal Conductivity Weight Loss %	BS ISO 2781	2.30 g/cm3 40 °C / 104 °F 150 °C / 302 °F -50 °C / -58 °F Paste Yes 0.77 W/mK 0.2 %
<b>Typical Applications</b> This grease has a relatively soft consistency and high extrusion rate that facilitates application by syringe into small gaps. This allows it to be used when mounting semi-conductor devices on heat sinks, obviating air gaps between imperfectly mating	Uncured Product Viscosity Electrical Properties	Brookfield	240000 mPa.s
surfaces. In this application, it may be used in conjunction with electrically insulating mica washers without increasing electrical leakage in any way. Used within a semi-conductor device casing it affords excellent shock protection for diode elements and provides protection against inadvertent contamination of these elements before the devices are finally encapsulated	Dielectric Constant Dielectric Strength (V/mil) Dielectric Strength kV/mm Dissipation Factor Volume Resistivity (Ohms cm)	ASTM D-150	277 V/mil 10.92 kV/mm / 277 V/mil
How to Use Minor surface cracking of the grease on long term storage is not a defect, but typical of this type of product. This effect disappears as soon as the surface is disturbed. If syringes are to be filled for	Storage Shelf Life		24 mths

injection of the product, care should be taken to avoid entrapment of air. All equipment used to handle the product can be cleaned readily with white spirit or other hydrocarbon solvents.

## Health & Safety

Health and Safety Safety Data Sheets available on request.

## Packaging

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

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