Non-Silicone Heat Transfer Paste
Thermally Conductive

RoHS Compliant

Description

MC002232 is a non-curing paste, designed for use as a thermal interface material. It is recommended where the efficient and reliable thermal coupling of electronic components or heat dissipation between any surfaces are required. MC002232 is a non-silicone paste, suitable for applications where silicones are prohibited.

Properties

Colour	: White
Base	: Blend of synthetic fluids
Thermo-Conductive Component	: Powdered metal oxides
Thermal Conductivity	: 0.65W/m.K
Density @ 20°C	: 2g/cm3
Temperature Range	: -40°C to +130°C
Permittivity @ 106Hz	: 4.2
Specific Resistance	: $1\times10^{14}\Omega$/cm
Dielectric Strength	: 40kV/mm
Penetration	: 210 to 250

General Properties

Packaging	: 200 gram/100ml Tube
Shelf Life	: 24 months

Directions for Use

Thermal pastes can be applied to the base and mounting studs of diodes, transistors, thyristors, heat sinks, silicone rectifiers and semi-conductors, thermostats, power resistors and radiators, to name but a few. When the contact surfaces are placed together, a firm metal-to-metal contact will only be achieved on 40% – 60% of the interface, depending on the smoothness of the surfaces. This means that air, which has relatively poor thermal conductivity, will account for the balance of the interface. Only a small amount of compound is required to fill these spaces and thus dramatically increase the effective surface area for heat transfer.

It is important to note that the quality of application of a thermal paste can be as important as the thermal conductivity of the material applied; best results are achieved when a uniform, thin coat is applied between the mating surfaces. Apply a thin layer of compound to one of the contact surfaces using a brush, spatula, roller, automated system or screen printing technique. Ensure that the entire interface is covered to avoid hot-spots from forming. Any excess paste squeezed out during the mounting process should be removed.

Part Number Table

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Non-Silicone Heat Transfer Paste, Thermally Conductive, 200g / 100ml, Tube	MC002232