

# 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/cm <sup>3</sup>
Temperature Range	: -40°C to +130°C
Permittivity @ 106Hz	: 4.2
Specific Resistance	: 1×10 <sup>14</sup> Ω/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

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

**Important Notice** : This data sheet and its contents (the "Information") belong to the members of the Premier Farnell group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. Multicomp is the registered trademark of the Group. © Premier Farnell Limited 2016.

[www.element14.com](http://www.element14.com)  
[www.farnell.com](http://www.farnell.com)  
[www.newark.com](http://www.newark.com)

