

## Product Description

DM-15015 is a one part, non-silicone high thermal conductivity paste. Materials are syringe dispensable and do not require a cure process to ensure ease of use in high volume production. The materials are typically deposited from a syringe using standard dispensing equipment. As a non-silicone paste, this material does not suffer from silicone oil leach or migration effects.

## Product Benefits

- Non-silicone (no migration, leach-out or contamination)
- Excellent stability for devices operating at high temperature
- Cost effective
- No cure
- Tacky/thixotropic paste

## Applications

Interface for semiconductors requiring low pressure or spring clamp mounting. Consumer electronics, Set-top boxes, IP routers, ECUs Memory and Power modules. CPU to Heat sink, Transistors, Diodes, IGBTs, Rectifiers, LED. TEC modules, Telecommunication hardware and as a gap filler for battery systems.

## Physical Properties

Test	Properties
Viscosity after mixing (Pa.s) (Brookfield, Spindle RV-7, 10 rpm, 25.5°C)	20 - 30
Density (ASTM D792)	2.5 g/cm <sup>3</sup>
Colour	Grey
Flow Rate (30cc syringe with no tip attachment, 0.100" orifice, 90psi)	20 - 60 g/min
Typical Minimum Bondline thickness	0.05 mm

## Thermal/Electrical Properties

Parameter	Properties
Thermal Conductivity (ASTM D5470)	1.5 W/m.K
Thermal Contact Resistance (ASTM D5470)	5.1 x 10 <sup>-5</sup> m <sup>2</sup> .K/W
Dielectric Strength (ASTM D149 MOD)	>3 kV/mm
Volume Resistivity (ASTM D257)	>1 x 10 <sup>11</sup> Ω.cm

## Durability Performance

Parameter	Properties
Operating Temperature Range	-40 to +125°C
Thermal Stability (125°C, JESD22-A103)	1000 hours

## Storage and shelf-life

The paste shelf-life is 24 months from date of shipment. Dycotec Materials cannot assume responsibility for a paste that has not been stored in appropriate conditions or where the pastes have been contaminated following use.

## Safety and Handling

For safe use of this product, please review relevant material and safety datasheet (MSDS).

## Packaging

Available for manual use with manual plunger DM-TIM-15055-SYP-10 (10cc) or 30cc, 50cc syringes eg DM-TIM-15055-SY-XX (where XX = 30 or 50).

Larger syringe sizes eg 70cc, 180cc, 360cc and 600cc available on request.

For more information, please contact:

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All information reported in the datasheet is for experimental work undertaken in our laboratories and illustrates typical values only. Processing conditions may vary depending on customers' experience and their application requirements and manufacturing process equipment set-up.

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