TIMTRONICS
THERMAL INTERFACE MATERIALS

DATA SHEET

TIM-PUTTY 418HTC

Non-Silicone Dispensable one part Gel/Putty

DESCRIPTIONS

TIM-PUTTY 418HTC is 'Ultra Soft" and highly conformable one part, paste type, Non-Cure gel type gap filler. Its "ultra soft"and tacky consistency assures efficient heat transfer between delicate parts where minimum pressure can be tolerated. This Form-in-place gap filler is ideal for applying any thickness with little or no stress. It is designed to provide a thermal solution for the recent trends of integrating higher frequency electronics into small devices.

TIM-PUTTY 418HTC easily form in place and adheres to most surfaces, shapes and sizes of components with very low compression force. Non-Silicone formulas avoid silicone contaminations to delicate devices. Single dispensable TIM can eliminate multiple pad part size. It can be applied like grease, easily dispensable from wide range of commercially available equipment.

KEY FUTURES AND BENEFITS

- Thermal Conductivity **(2.5 W/m-K)**
- Soft and compliant transferring little to no pressure between interfaces
- Cost-Effective Thermal Solution
- Non-Silicone Advantages, No creep or contamination. Re-workable

APPLICATIONS

- Interface for semiconductors requiring low pressure or spring clamp mounting
- Flip chip microprocessors, Graphic chips
- PPGA's, BGA, Micro BGA, DSP chips, LED
- Cooling components to the chassis or frame

AVAILABILITY

30cc Syringe, 1 Kg Jar. 300cc Cartridge, 6 oz. Semco Cartridge,1 gallon & 5 gallon pail
Custom packaging available upon request

Typical Property	Test Method	Value
Type		Silicone Free, One Part, No Cure
Special Future		High Thermal Conductivity, Tacky Texture, Dispensable
Color	Visual	Gray
Viscosity 5 rpm @ 25°C, PaS	Helipath	4900
Specific Gravity	ASTM D792	2.1
Operating Temperature Range.°C		-55°C to 200°C
Shelf Life @ 25°C		5 years
Flammability (Equivalent)	UL 94	V-0
THERMAL		
Thermal Conductivity (W/m-K)	ASTM D5470	2.5
ELECTRICAL		
Breakdown Voltage (KV/mm)	ASTM D149	3
Dissipation Factor (1KHz)	ASTM D150	0.005
Volume Resistivity (Ohm-cm)	ASTM D257	10^9