

TIM-PUTTY 616

High Temperature Stable, Non-Silicone, Dispensable one part Gel/Putty

DESCRIPTIONS

TIM-PUTTY 616 is specially designed for **high temperature (up to 360°C)** and zero outgassing for aerospace and telecommunication applications. Its 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.

TIM-PUTTY 616 easily forms 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 (**2.0 W/m-K**)
- **High Temperature Stable up to 360°C**
- **Meets NASA Out Gassing Specification**
- Non-Silicone Advantages, No creep or contamination. Re-workable

APPLICATIONS

- Aerospace, Telecommunication Modules
- interface for semiconductors requiring low pressure or spring clamp mounting
- 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 Temperature stable up to 360°C Meets Nasa Out Gassing Specification
Color	Visual	Gray
Viscosity 5 rpm @ 25°C, PaS	Helipath	2400
Specific Gravity	ASTM D792	2.3
Operating Temperature Range.°C		-55°C to 360°C
Out Gassing	ASTM E-595	TML 0.9%, CVCM 0.01%
Shelf Life @ 25°C		5 years
Flammability (Equivalent)	UL 94	V-0
THERMAL		
Thermal Conductivity (W/m-K)	ASTM D5470	2.0
ELECTRICAL		
Breakdown Voltage (KV/mm)	ASTM D149	3.0
Dissipation Factor (1KHz)	ASTM D150	0.005
Volume Resistivity (Ohm-cm)	ASTM D257	10 ⁹

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