

TIM-PUTTY 45

Non-Silicone Dispensable one part Gel/Putty

DESCRIPTIONS

TIM-PUTTY 45 is low viscosity and highly conformable **one part, paste type, Non-Cure gel** type dispensable 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 45 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 (4.5 W/m-K)**
- Soft and compliant transferring little to no pressure between interfaces
- **Zero pump out/No slump in vertical positions**
- Non-Silicone Advantages

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 | | Low viscosity, Tacky Texture, Dispensable Zero Pump out in vertical positions |
| Color | Visual | Gray |
| Viscosity 5 rpm @ 25°C, PaS | Helipath | 4400 |
| Specific Gravity | ASTM D792 | 2.3 |
| 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 | 4.5 |
| ELECTRICAL | | |
| Breakdown Voltage (KV/mm) | ASTM D149 | 3 |
| Dissipation Factor (1KHz) | ASTM D150 | 0.005 |
| Volume Resistivity (Ohm-cm) | ASTM D257 | 10 ⁹ |

DISCLAIMER: All statements, technical information, and recommendations related to Timtronics products are based on information believed to be reliable, but accuracy or completeness is not guaranteed. Before using this product, you must evaluate it and determine if it is suitable for your intended application. You must assume all risks and liability associated with such use. Timtronics will not be liable for any indirect, special, incidental or consequential loss or damage arising from this product, regardless of legal theory asserted.