

# IntraBAR 50

Phase Change Compound Applicator

50°C/122°F Phase-Change Temperature

IntraBar 50 is a dispensable graphite filled phase-change thermal compound available in a hand held applicator format. IntraBar 50 offers quick installation of thermal compound by allowing easy swiping of thin compound layers onto the application surface.

IntraBar 50 is ideal for those applications requiring an ultra-thin or custom thickness layer of thermal compound or for quick application of thermal compound in a re-work scenario. IntraBar 50 compound can be applied to case sink or heat sink surfaces in a convenient alternative to film form products.

Once the phase-change compound is applied and installation of the device/sink is complete, the compound will begin to flow during device operation driving out air and adjusting to surface imperfections and flatness conditions thus promote efficient heat transfer.

- Film-like Deposition of Compound
- Compound Thickness Flexibility
- Replacement for Thermal Grease
- Easy-to-Apply Hand Held Applicator
- Thixotropic-Prevents Compound Run-Out
- Ideal for Device Rework



Typical Device Applications			
<ul style="list-style-type: none"><li>• Heat Sink</li><li>• Clip Mount</li></ul>	<ul style="list-style-type: none"><li>• TEC</li><li>• Re-work</li></ul>	<ul style="list-style-type: none"><li>• Transistors</li><li>• Microprocessor</li></ul>	<ul style="list-style-type: none"><li>• Interface surfaces with flatness condition of 0.002" (0.051mm) or less</li></ul>

## Thermal Compound Properties

Phase Change Temp.....50°C / 122°F  
Volumetric Expansion.....15%  
Compound Color.....Black  
Thermal Conductivity.....2.5 W/m-K

## Physical Properties

Compound per Bar.....19 grams  
Compound Color.....Black  
Compound Width.....0.750"  
Case Length:.....4.000"  
Case Width.....1.375"  
Case Height.....0.625"  
Case Color.....Red

## Thermal Impedance (ASTM-D5470)

@10 PSI.....0.020 °C-in<sup>2</sup> / W  
@80 PSI.....0.008 °C-in<sup>2</sup> / W

Data based upon 0.0005" (0.013mm) thick coating of phase-change compound. Applying a thicker layer of thermal compound will result in higher resistance figures than shown above. Testing required.

## Storage and Shelf Life

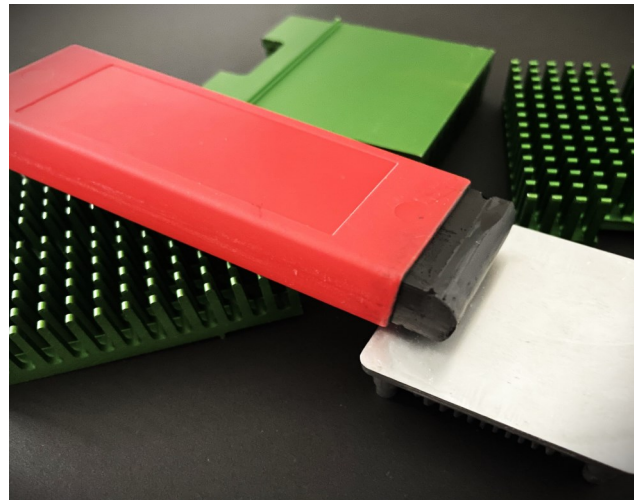
Store compound bar in a cool, dry location at or below 95F / 35C.  
Shelf life is 2 years from date of manufacture if stored per conditions listed above.  
Store with applicator cap

## Other Information

RoHS Compliant  
REACH Compliant  
Halogen Free Compliant

## What is IntraBar 50?

IntraBar 50 is a graphite filled solvent free thermal interface compound that is designed to provide efficient thermal transfer by providing precision phase-change and compound thickness flexibility across a device/component mounting interface. IntraBar 50's inherent flexibility from manufacturing to installation makes it an ideal solution for applications ranging from low volume (even prototypes) and/or high volume environments. IntraBar 50 offers a quick turnkey solution from design to production.



## Directions for Use:

**Step 1:** make sure all surfaces are clean and free of debris. Cleaning application surfaces with isopropyl alcohol or solvent is recommended. Make sure all cleaners are fully removed before applying compound.

**Step 2:** remove cap and adjust finger slider on the back of case to expose compound. Adjust slider until you reach the desired height of exposed compound.

**Step 3:** apply compound tip to application surface swiping compound in one direction only. Repeat until desired compound coverage or amount has been reached. For best results, apply compound holding applicator at a 45° angle from the surface of the interface.

**Step 4:** once complete, used applicator slider to lower compound tip. Apply cap for storage until further use. Excess compound can be wiped away with typical solvent cleaners.