

# Non Silicone 1mm 3m Thermally Conductive Pad 8.0 W/mK Flame Retardant

## **Basic Information**

- Place of Origin:
- Brand Name: zhonglei

China

100 m<sup>2</sup>

- Minimum Order
  Quantity:
- Packaging Details: carton
- Supply Ability: 10000



चि

上海中垒电气材料有限公司 Shanshai Zhonglei Electric Material Co. Ltd

## **Product Specification**

	3m Thermally Conductive Pad Flame Retardant, Non Silicone 1mm Thermal Pad
Highlight:	3m Thermally Conductive Pad 8.0 W/mK,
Density:	3.2 G / Cbm
Thermal Conductivity:	8W/mK
• Thickness Tolerance:	±0.001" (±0.025mm)
Tensile Strength:	10 Psi
Thickness:	0.5~5mm
• Flame Retardant:	Yes

#### **Product Description:**

Discover the ultimate solution for your thermal management needs with our advanced Thermally Conductive Material, meticulously engineered to provide both superior heat dissipation and protection for a wide range of applications. This innovative Heat Conductive Compound is designed with performance and durability in mind, ensuring that your devices maintain optimal temperatures for prolonged efficiency and reliability.

Our product boasts an excellent chemical resistance that ensures longevity and stability even in the harshest of environments. Whether exposed to oils, common solvents, or other potentially damaging substances, this Thermal Conductive Putty maintains its integrity, providing a consistent thermal pathway for heat to be efficiently transferred away from critical components.

The versatility of our Heat Conductive Compound is further accentuated by its dual curing method. It can be cured at room temperature, offering convenience and ease of use for applications where heat-sensitive components are involved. Alternatively, for faster curing times and enhanced bond strength, a heat cure can be employed, thus providing flexibility to accommodate various production processes and requirements.

When it comes to electrical insulation, our Thermally Conductive Material excels with an impressive dielectric strength of10KV/mm. This characteristic not only contributes to the protection of electronic components from electrical discharges but also allows our product to be used in applications where electrical insulation is critical without compromising thermal conductivity.

Engineered to perform in a wide range of temperatures, this Thermal Conductive Putty operates effectively within an extensive operating temperature range of -40°C to 125°C. This broad spectrum ensures that the material remains pliable and functional in extremely cold conditions, while also withstanding high temperatures without degradation. Such resilience makes it an ideal choice for industries ranging from aerospace to consumer electronics, where temperature fluctuations are commonplace.

Safety is paramount in any application, and our Heat Conductive Compound addresses this concern with its inherent flame-retardant properties. This feature not only helps to prevent the spread of flames in the event of a fire but also contributes to the overall safety of the equipment and the users. By incorporating our Thermally Conductive Material into your designs, you are adding an extra layer of protection that can be vital in critical situations.

The application of our Thermally Conductive Material is a straightforward process, and it can be applied to a variety of substrates with ease. Its putty-like consistency allows for manual or automated dispensing, making it suitable for both large-scale manufacturing and individual projects. Once applied, the material conforms to the contours of the surfaces, ensuring maximum contact and efficient thermal transfer between components.

In summary, our Thermally Conductive Material offers an exceptional combination of features that make it an indispensable asset for any thermal management strategy. Its superior chemical resistance, flexible curing options, high dielectric strength, wide operating temperature range, and flame retardant quality form a product that not only dissipates heat effectively but does so with remarkable reliability and safety. Whether you are dealing with consumer electronics, automotive applications, or industrial machinery, our Heat Conductive Compound is the advanced solution you can trust for maintaining optimal performance and extending the lifespan of your devices.

#### Features:

Product Name: Thermally Conductive Material Chemical Resistance: Excellent Color: Blue Application Method: Dispensing or Brushing Density: 3.2g/cbm Key Features: Thermal Conductivity Material Key Features: Thermal Conductive Adhesive Key Features: Thermal Conductive Compound

#### **Technical Parameters:**

Parameter	Value
Density	3.2 G / Cbm
Chemical Resistance	Excellent
Thermal Conductivity8	W/mK
Thickness	0.5~5mm
Flame Retardant	Yes
Operating Temperature Range	-40°C To 125°C
Tensile Strength	10Psi
Dielectric Strength	10 KV/mm
Color	Blue

### **Applications:**

The zhonglei brand, hailing from China , has developed a suite of advanced thermal management solutions. Among these is their

flagship **Thermal Conductive Compound**, a silicone-based material designed to efficiently transfer heat. This product is specifically formulated to be used in a variety of applications and scenarios where effective heat dissipation is crucial.

The **Thermal Conductive Putty** from zhonglei is not only highly efficient in conducting heat but also boasts a wide operating temperature range of **-40°C to 200°C**. This makes it suitable for use in a vast array of environments and climates without compromising its performance. The robust nature of the material is further enhanced by its **flame retardant** properties, ensuring safety in applications where there is a potential risk of fire.

With a hardness of **50 Shore A**, zhonglei's thermal compound strikes the perfect balance between flexibility and structural integrity. This characteristic is particularly beneficial for applications requiring a material that can conform to uneven surfaces while maintaining a strong bond and consistent thermal pathway.

The versatility of zhonglei's **Heat Conductive Compound** extends to its use in electronics, where efficient heat dissipation is critical for maintaining the longevity and reliability of components. It can be applied between CPUs, GPUs, and heat sinks, as well as in LED lighting systems, power supplies, and automotive electronics. Its ease of application and durability make it a go-to choice for thermal management in both consumer and industrial electronics.

In the automotive sector, zhonglei's thermal materials can be utilized within electric vehicle battery packs and control units, where managing heat is essential to maintain performance and safety. The thermal compound's ability to withstand a wide temperature range and its flame retardant nature are key attributes for such demanding applications.

Moreover, the **Thermal Conductive Compound** finds its place in the aerospace industry, where materials are subjected to extreme conditions and must comply with stringent safety standards. The reliability and efficiency of zhonglei's product ensure that it can be confidently used in onboard electronics and other heat-sensitive components of aerospace technology.

To summarize, the thermal management solutions provided by zhonglei, including their Thermal Conductive Compound and Putty, are essential in numerous high-stakes applications. From consumer electronics to advanced aerospace systems, these products ensure effective heat dissipation, operational safety, and improved performance, embodying the innovation and quality that have become synonymous with this reputable brand from China.

#### **Customization:**

Brand Name: zhonglei Place of Origin: China Color: Blue Density: 3.2 G / Cbm Flame Retardant: Yes Tensile Strength: 10 Psi

Discover our high-performance *Heat Conductive Compound* from zhonglei, meticulously engineered to meet your thermal management needs. This premium *Thermal Conduction Material*, originating from China, delivers exceptional heat dissipation for a variety of applications. Available in a sleek grey color, our compound boasts a density of 3.2G / Cbm, ensuring a robust yet lightweight solution for your devices. Crafted from high-quality silicone material, it provides durability along with its excellent thermal properties. Safety is paramount, and our *Thermal Conductive Compound* is flame retardant, adhering to stringent safety standards. With a tensile strength of 10 Psi, it maintains structural integrity under various conditions, making it a reliable choice for thermal conductivity requirements.

#### Support and Services:

Our Thermally Conductive Material products are designed to provide efficient heat dissipation for a variety of applications. To ensure the optimal performance and longevity of your product, we offer comprehensive technical support and services. Our team of technical experts is available to assist you with product selection, installation guidance, and performance optimization. Additionally, we provide resources to help you understand the best practices for handling and applying our materials to achieve maximum thermal conductivity and reliability. For further assistance, please refer to our detailed product documentation and FAQs, which are available to support you in achieving the best results with our thermally conductive solutions.

### **Packing and Shipping:**

Our Thermally Conductive Material product is meticulously packaged to ensure safe transit and preservation of its thermal properties. Each unit is encased in anti-static packaging to prevent electrostatic discharge damage, followed by a layer of cushioning material that provides thermal insulation and shock absorption. The product is then sealed within a durable, moisture-resistant outer package clearly labeled with handling and storage instructions.

For shipping, we use reputable carriers with experience in handling sensitive materials. The package is monitored for temperature control during transit, ensuring that the product maintains its efficacy upon arrival. A tracking number is provided for real-time monitoring of the shipment, and we recommend customers inspect the package upon delivery to confirm its integrity. If any damage or discrepancies are found, please contact our customer service immediately for assistance.

### FAQ:

#### Q1: What types of applications are suitable for zhonglei's thermally conductive material?

A1: Zhonglei's thermally conductive material is suitable for a wide range of applications including electronics cooling, LED lighting systems, automotive electronics, power supplies, and any application where efficient heat dissipation is required to maintain optimal performance and extend the lifespan of components.

Q2: Can zhonglei's thermally conductive material be customized for specific applications?

**A2:** Yes, we can customize our thermally conductive materials to meet the specific requirements of your application. This includes formulating materials with different thermal conductivities, viscosities, and curing properties to match your needs. Please contact us with your specifications for further assistance.

Q3: How does zhonglei ensure the quality of its thermally conductive material?

A3: Zhonglei is committed to quality and adheres to strict manufacturing processes and quality control measures. Our products undergo rigorous testing to ensure they meet high standards of thermal performance and reliability. Additionally, being manufactured in China allows us to maintain a close eye on the production process from start to finish.

Q4: What is the thermal conductivity range of zhonglei's thermally conductive materials?

A4: Zhonglei offers thermally conductive materials with a wide range of thermal conductivities to suit various applications and requirements. To get information on specific products and their thermal conductivity values, please contact our customer service team with your requirements.

#### Q5: How do I apply zhonglei's thermally conductive material to my components?

A5: The application process for our thermally conductive material will vary depending on the product form (e.g., paste, pad, adhesive).

