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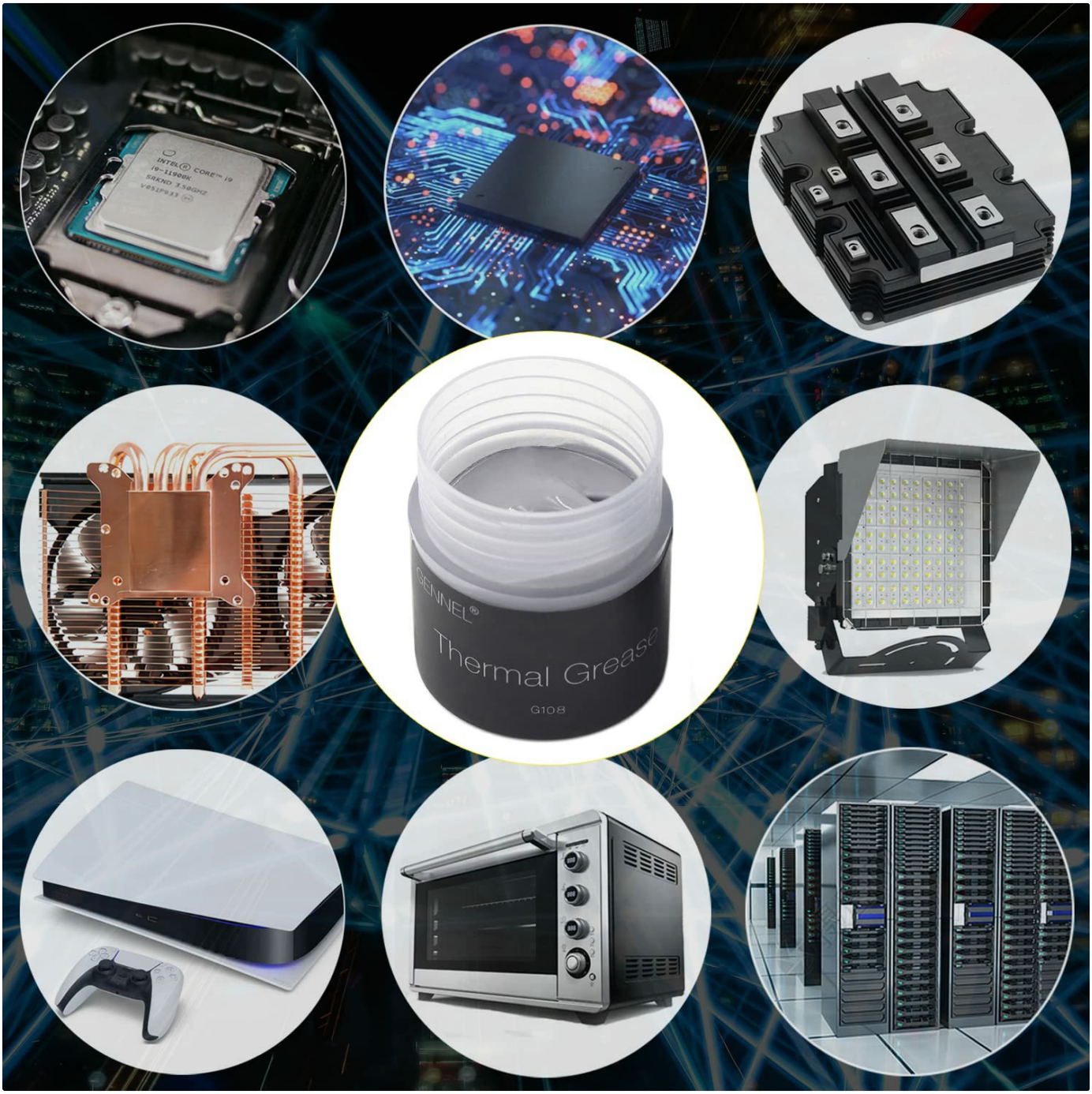
GENNEL G108

GENNEL G108 20g High Performance Thermal Paste Instruction Manual

Product Overview

The GENNEL G108 is a high-performance thermal paste designed to improve heat transfer between electronic components and their heatsinks. This carbon-based heatsink grease is suitable for various applications, including CPUs, GPUs, high-power LEDs, and other chipsets requiring efficient thermal management.
Key features include:

- **Excellent Thermal Conductivity:** >4.63 W/m-k
- **Low Thermal Resistance:** <0.0087 °C-in²/W
- **Non-Electrical Conductive:** Reduces risk of short circuits.
- **High Temperature Resistance:** Stable performance across a wide temperature range.
- **Safety:** Odorless, Non-Corrosive, Non-Toxic, Flame Retardant.



The GENNEL G108 thermal paste is suitable for various electronic components and devices, including CPUs, GPUs, gaming consoles, and industrial applications.

Installation Guide

Preparation

Before applying the GENNEL G108 thermal paste, ensure the surfaces of both the component (e.g., CPU, GPU) and the heatsink are clean and free from any old thermal paste, dust, or debris. Use a lint-free cloth and a suitable cleaning agent (e.g., isopropyl alcohol) for this step.



Clean the surface of the CPU or GPU thoroughly before applying new thermal paste.

Application Methods

The GENNEL G108 thermal paste can be applied using various methods. A small amount is typically sufficient to create a thin, even layer.

Pea-Sized Dot Method (for CPUs)

1. Place a small, pea-sized dot of thermal paste directly in the center of the CPU's integrated heat spreader (IHS).
2. Carefully place the heatsink onto the CPU. The pressure from the heatsink will spread the paste evenly. Do not twist or slide the heatsink once it makes contact.

Line Method (for rectangular GPUs)

1. For rectangular dies like some GPUs, apply one or two thin lines of thermal paste across the center of the die.
2. Carefully place the heatsink onto the GPU. The pressure from the heatsink will spread the paste evenly.

Spreading Method

1. Apply a small amount of thermal paste to the center of the component.
2. Use the included spatula to gently spread the paste into a thin, even layer across the entire surface of the component's heat spreader. Ensure there are no air bubbles or uncovered areas.
3. Carefully place the heatsink onto the component.



Applying thermal paste to a CPU using the included spatula for an even spread.



Ensure the thermal paste is spread into a thin, uniform layer across the entire surface for optimal heat transfer.

Product Operation and Benefits

The GENNEL G108 thermal paste works by filling the microscopic air gaps and imperfections between the surface of a heat-generating component (like a CPU or GPU) and its heatsink. Air is a poor conductor of heat, and these gaps can impede efficient heat transfer. By replacing the air with a highly conductive material, the thermal paste significantly improves the thermal connection, allowing heat to move more effectively from the component to the heatsink, where it can be dissipated.



The thermal paste fills microscopic gaps between the CPU and heatsink, facilitating efficient heat dissipation.

This thermal paste is non-electrical conductive, which means it poses no risk of short-circuiting sensitive electronic components, even if it accidentally spreads beyond the intended application area. Its high temperature resistance ensures stable performance under demanding conditions, contributing to the longevity and reliability of your hardware.



The GENNEL G108 thermal paste is non-electrical conductive, ensuring safety for electronic components.

Maintenance and Reapplication

Thermal paste does not typically require frequent maintenance. However, its effectiveness can diminish over time due to drying out or pump-out effects, especially under extreme temperature cycles. It is recommended to inspect and potentially reapply thermal paste when:

- You are reinstalling a heatsink or changing a component (CPU/GPU).
- You observe consistently higher operating temperatures for your components.
- After approximately 2-3 years of continuous use, depending on operating conditions.

To reapply, carefully remove the heatsink, clean both surfaces thoroughly as described in the "Preparation" section, and then apply new thermal paste following the installation guide.

Troubleshooting Common Issues

High Component Temperatures After Application

If you experience unexpectedly high CPU or GPU temperatures after applying thermal paste, consider the following:

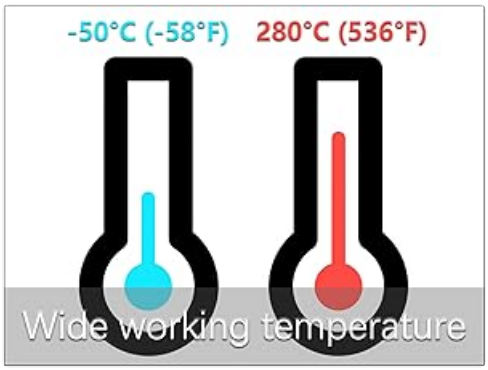
- **Insufficient Contact:** Ensure the heatsink is properly mounted and making firm, even contact with the component. Uneven pressure can lead to poor thermal transfer.
- **Incorrect Application:** Too much or too little paste, or an uneven spread, can hinder performance. Re-clean and reapply the paste carefully.
- **Air Bubbles:** Air trapped within the paste layer can reduce thermal conductivity. Ensure a smooth, even application.
- **Heatsink Issues:** Verify that the heatsink fan is operating correctly and that the heatsink fins are free from dust buildup.

Thermal Paste Drying Out Prematurely

While GENNEL G108 is designed for long-term stability, extreme operating conditions or improper storage can affect its lifespan. Ensure the product is stored in a cool, dry place with the cap tightly sealed when not in use.

Product Specifications

Feature	Detail
Brand	GENNEL
Model Number	G108
Net Weight	20 grams
Thermal Conductivity	>4.63 W/m-k
Thermal Resistance	<0.0087 °C-in²/W
Electrical Conductivity	Non-electrical conductive
Operating Temperature Range	-50°C to 280°C (-58°F to 536°F)
Composition	Carbon-based
Safety Features	Odorless, Non-Corrosive, Non-Toxic, Flame Retardant
Included Accessories	1 x Thermal paste spatula



The GENNEL G108 thermal paste offers stable performance across a wide operating temperature range.

Warranty Information

Specific warranty details for the GENNEL G108 thermal paste are not provided in this manual. Please refer to the product packaging or contact GENNEL customer support for warranty inquiries.

Customer Support

For further assistance or technical support regarding the GENNEL G108 thermal paste, please visit the official GENNEL website or refer to the contact information provided on the product packaging. This manual does not contain direct customer support contact details.

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