

Key Features and Benefits

- **Low settlement**
- **Excellent high and low-temperature resistance, high humidity resistance, superior climate resistance**
- **Suitable for screen printing, automatic point glue, etc.**
- **Possesses moderate thixotropic properties**

Description

PAKCOOL® TG-210 is a thermally conductive silicon grease, used between high-power electronic components and heat sinks. The product has good heat conductivity, enabling close contact and reducing heat resistance between the electronic component and the heat sink surfaces, thus reducing the temperature of the original electronic components quickly and effectively, prolonging the service life of the electronic components and improving their reliability.

The product has a thixotropic property, will not flow arbitrarily; after applying it to the devices, some pressure is required to let it flow and fill the gap. TG-210 thermal conductive silicone grease will not cross-linked to electronic assembly.

In addition to high thermal conductivity, the product does not produce stress, with skinny thickness and smaller thermal resistance to achieve better thermal conductivity. High stability at -50 to + 200°C with excellent climate resistance, high temperature, and humidity resistance.

Applications

- **LED**
- **High-performance CPUs/GPUs**
- **Power semiconductors/Power supplies**
- **Automotive electronics**
- **Motion control**
- **Telecommunications**
- **Computer and peripherals**
- **Between heat-generating semiconductors or magnetic components and a heat sink**

Packaging

- PAKCOOL®TG-210 thermally conductive grease is offered in a 1Kg, 5Kg and 20Kg barrel or 330mL, 55mL tube depending on the customer's requirements.

Technical Parameters

Typical Properties	TG-210	Test Methods
Apparent	White grease	--
Viscosity (cP)	80,000±30,000	ASTM D2196-15
Thermal Conductivity (W/m·K)	1.0	ASTM D5470
Density (g/ cm ³)	2.10±0.20	ASTM D792
Weight Loss (% @150°C×3hrs)	≤0.35	GB 33372-2020
Flame Rating	V-0	UL 94
Continuous Use Temperature (°C)	-50 to +200	--

Data is available only for guidance and does not as a product specification.

Application Instructions

- If the coated device material is very oil absorbent, it will make the glue state have obvious thickening and drying. Therefore, the surface needs to be treated as non-oil absorption devices or use our single-part adhesive for anti-oil absorption treatment. The judgment of the device material without absorbing oil is generally not changed at normal temperature within 24h.
- Clean the surface of the coating part, scrape or squeeze enough TG-210 to the surface of the device, and then slightly press the two surfaces. If there is any extruded silicone squeezed out, it can be wiped out with a cloth. After use, the container shall be sealed for later operation.

Storage and Transportation

- PAKCOOL®TG-210 thermally conductive grease is a non-toxic, non-combustible material, and the storage period is about 12 months at room temperature. If there is oil seepage during storage, it can be mixed evenly before use; because the tube products cannot be stirred, they should be stored at low temperature on horizontal and it is recommended that the product be used up within 3 months. It can be transported as a general liquid chemical.

The data of this specification are obtained under laboratory conditions. However, because of the difference in use environment, process and so on, it can not guarantee the correctness and applicability of the product in some usage and use. When using, be sure to test to confirm the product suitable for your purpose. If you have any problems in using this product, please contact our technical department. We will do our best to help you.