

## Thermal conductive paste eXtreme

Advanced solutions that optimize the performance of cooling systems. These solutions enhance cooling efficiency thanks to an exceptional thermal conductivity exceeding 6 W/mK. Utilizing nanomaterials, the paste effectively dissipates heat from processors, GPUs, and other high-temperature-generating components. Its dielectric properties provide additional protection against electrical hazards, making it an ideal choice for both professionals and technology enthusiasts.

### Product features:

- ✓ thermal conductivity 6 W/mK,
- ✓ high temperature resistance,
- ✓ excellent dielectric properties,
- ✓ versatile applications,
- ✓ easy application,
- ✓ compliance with RoHS directive.

### Applications:

- ✓ cooling systems for computers and industrial devices,
- ✓ vacuum solar collectors,
- ✓ LED diodes,
- ✓ components requiring high-temperature resistance.



### Physicochemical properties

Appearance	Gray paste
Density at 20°C	2.38 g/cm <sup>3</sup>
Thermal conductivity	6 W/mK
Operating temperature range	-50°C to 250°C
Temperature resistance range	-40°C to 340°C
Thermal impedance	<0.004°C in <sup>2</sup> /W
Evaporation	Does not evaporate
Viscosity	453000 cP (mPa·s)
Thixotropic index	380±10
Volume resistivity (ASTM D257)	2.0*10 <sup>8</sup> p <sub>v</sub> Ω x m 2.0*10 <sup>10</sup> Ω x cm
Dielectric loss factor tg δ (ASTM D150)	0.32 (120 Hz) 0.14 (1 kHz) 0.037 (10 kHz) 0.009 (100 kHz)
Relative dielectric permeability ε <sub>r</sub> (ASTM D150)	56 (120 Hz) 46 (1 kHz) 41 (10 kHz) 40 (100 kHz)
Shelf life	3 years

**Compatibility:**

Extreme Paste is compatible with a wide range of materials, including aluminum, copper, and ceramics. Its formula prevents electrocorrosion, ensuring stability and safety even under extreme working conditions.

Application method	
Machine application	Yes
Syringe	Yes
Stencil	Yes
Spatula	Yes

**Usage instructions:**

**Restricted to professional users. Read safety data sheet carefully prior to use.**

Before application, ensure that surfaces are clean and dry. Apply a small amount of thermal paste to the center of the electronic component. Using an included spatula, spread an even, thin layer across the entire contact surface. Do not use excessive paste—just enough to ensure efficient heat transfer. Then, mount the heat sink or other cooling component.

For 100 g and 1 kg packaging, mix the paste thoroughly before application. Stir for about 1-2 minutes, paying special attention to reaching the bottom of the container. This ensures proper mixing of the ingredients and optimal product performance.

Package	
Syringe	1 g (ART.AGT-162) - 5 pcs.* 3 g (ART.AGT-108) - 5 pcs.*
Plastic box	100 g (ART.AGT-247) - 1 pc.* 1 kg (ART.AGT-150) - 1 pc.*

\*Quantity of pcs. in a bulk package

**Storage:**

Store in a well-ventilated, cool, and dry place. Keep containers tightly closed when not in use. Protect from direct sunlight.

**Technical support:**

AG TermoPasty provides technical support, answering questions about the technical specifications and applications of our products. Please contact us via email at [info@termopasty.pl](mailto:info@termopasty.pl).

**Note:**

The data presented in this document reflect our current state of knowledge and describe the typical properties and applications of the product. However, the responsibility for determining the suitability of this product for specific applications lies with the user. AG TermoPasty is not liable for the results of the product's use, as the conditions of its application are beyond our control.

