

Thermal conductive paste Gold

An advanced solution for professionals and technology enthusiasts who demand maximum cooling performance. The paste, enriched with gold particles, offers thermal conductivity of 3.57 W/mK, ensuring effective heat dissipation and protecting components from overheating. Thanks to its exceptional dielectric properties and wide operating temperature range, it is an ideal choice for computers, energy systems, and industrial installations.

Product features:

- ✓ thermal conductivity >3.57 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,
- ✓ components requiring high-temperature resistance.



Physicochemical properties

Appearance	Gold paste
Density at 20°C	2.37 g/cm ³
Thermal conductivity	>3.57 W/mK
Operating temperature range	-50°C to 250°C
Temperature resistance range	-50°C to 340°C
Thermal impedance	<0,095°C in ² /W
Evaporation	<0,001%
Leakage	<0,05%
Viscosity	Does not flow
Thixotropic index	380±10
Volume resistivity (ASTM D257)	2.2*10 ¹² p.Ω x m 2.2*10 ¹⁴ Ω x cm
Dielectric loss factor tg δ (ASTM D150)	0.005 (120 Hz) 0.002 (1 kHz) <0.001 (10 kHz) <0.001 (100 kHz)
Relative dielectric permeability ε _r (ASTM D150)	7.7 (120 Hz) 17.3 (1 kHz) 17.3 (10 kHz) 17.3 (100 kHz)
Shelf life	3 years

Compatibility:

Gold Paste is compatible with most materials used in electronic and energy systems. Its chemical neutrality and advanced dielectric properties ensure safety and long-term performance.

Application method	
Machine application	Yes
Syringe	Yes
Stencil	Yes
Spatula	Yes

Usage instructions:

Restricted to professional users. Read SDS 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 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-163) - 5 pcs.* 3 g (ART.AGT-106) - 5 pcs.*
Plastic box	100 g (ART.AGT-119) - 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.

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.

