

Thermal conductive paste H

Indispensable product for devices requiring efficient heat dissipation. Thanks to its thermal conductivity of $>0.88 \text{ W/mK}$, it ensures optimal cooling, protecting key components from overheating. Its unique formula, resistant to chemicals and high temperatures, combined with excellent electrical insulation, makes it an ideal solution for a wide range of applications.

Product features:

- ✓ thermal conductivity $>0.88 \text{ W/mK}$,
- ✓ high temperature resistance,
- ✓ resistant to acids, bases, salts, sulfur dioxide, and ammonia,
- ✓ excellent dielectric properties,
- ✓ versatile applications,
- ✓ easy to apply.

Applications:

- ✓ modules with high thermal conductivity,
- ✓ devices mounted on heat sinks or frames,
- ✓ high-performance and high-speed drives, including HDD and DVD motors,
- ✓ electric motors used in the automotive industry,
- ✓ power converters, communication equipment,
- ✓ laptops and computers, network communication devices,
- ✓ high-power LED diodes,
- ✓ RTV and home appliances, air conditioning systems.



Physicochemical properties

Appearance	White paste
Density at 20°C	$\sim 2.58 \text{ g/cm}^3$
Thermal conductivity	$>0.88 \text{ W/mK}$
Operating temperature range	-50°C to 250°C
Freezing point	-50°C
Flashpoint	350°C
Specific heat at 50°C	0.243 Cal/gK
Viscosity	Non-fluid
Refractive index	1.405
Volume resistivity (ASTM D257)	$3.7 \cdot 10^{13} \text{ p}\Omega \cdot \text{m}$ $3.7 \cdot 10^{15} \Omega \cdot \text{cm}$
Dielectric loss factor tg δ (ASTM D150)	0.016 (120 Hz) 0.012 (1 kHz) 0.007 (10 kHz) 0.007 (100 kHz)
Relative dielectric permeability ϵ_r (ASTM D150)	8 (120 Hz) 8.2 (1 kHz) 8 (10 kHz) 7.9 (100 kHz)
Shelf life	3 years

Compatibility:

Silicone Paste H is chemically neutral, meaning it is safe for use on most materials, including plastics and metals. It provides long-lasting protection and stability across a wide temperature range.

Application method	
Machine application	Yes
Sachet	Yes
Syringe	Yes
Stencil	Yes
Spatula	Yes
Tube	Yes
Cartouche gun	Yes

Usage instructions:

Restricted to professional users. Read SDS carefully prior to use.

Before application, ensure that the surfaces are clean and dry. Apply a small amount of paste to the component, using a spatula for even distribution. Make sure the layer fully covers the surface to ensure optimal heat transfer. After application, attach the heat sink or cooling component.

Package	
Sachet	0,5 g (ART.AGT-144) - 20/200 pcs.*
Tube	7 g (ART.AGT-055) - 10/300 pcs.*
Syringe	25 g (ART.AGT-056) - 8 pcs.*
Cartouche	800 g (ART.AGT-120) - 6 pcs.*
Plastic box	100 g (ART.AGT-057) - 8 pcs.* 1 kg (ART.AGT-058) - 1 pc.*
Plastic bucket	5 kg (ART.AGT-059) - 1 pc.*

*Quantity of pcs. in a bulk package

Storage:

Store in a well-ventilated, cool, and dry place. Keep containers tightly sealed 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.

