

Paste H

A reliable solution for devices requiring efficient heat dissipation – silicone paste H with a thermal conductivity of $>0.88 \text{ W/mK}$ ensures effective cooling and prevents component overheating. Its advanced formulation, resistant to chemicals and capable of withstanding extreme temperatures (-50°C to $+250^\circ\text{C}$), combined with excellent dielectric properties, makes it suitable for a wide range of industrial and electronic 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	$0.243 \text{ Cal/g}\cdot\text{K}$
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 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:

Before use, ensure that all surfaces are clean and dry. Apply a thin, even layer of the paste using a spatula or other application method, making sure the entire surface is fully covered. Avoid air bubbles to ensure optimal heat transfer. After application, attach the heat sink.

For the 100 g, 1 kg, and 5 kg packages, thoroughly mix the paste before application to restore its uniform consistency. Stir the product with a clean tool for about 1–2 minutes, making sure to reach the bottom of the container. This will ensure even blending of the components and optimal product performance.

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.

