

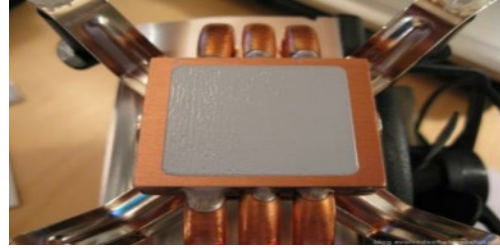
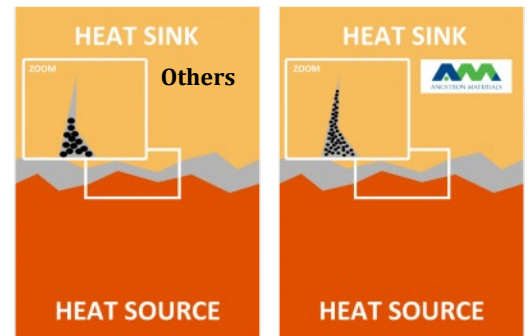


ANGSTRON MATERIALS

GRAPHENE THERMAL PASTE

Product Basic Characteristics

- ❖ AMG thermal paste uses graphene as filler; it has high thermal conductivity, non-metallic, and stable material costs. It is suitable for electronic products, i.e. rapid removal of interior heat to surface easily.
- ❖ Micro-grade graphene thermal paste can easily fill the interstitial regions of micro devices. AMG also improves coating characteristics to enhance ease of applications.
- ❖ AMG developed silicon-free thermal paste to meet manufacturers' and users' end-need. It maintains high performance and excellent coating characteristics.



Product specifications

AMG offers four different sizes of thermal paste products.

	Thermal Conductivity (W/mK)	Specific Gravity (g/cm ³)	Working Temperature (°C)	Viscosity (mPaS)
STP-K02	2.0	2.05	-50~+160	80,000~90,000
STP-K05	5.0	2.05	-50~+160	80,000~90,000
STP-K10	10.0	2.05	-50~+160	80,000~90,000
STP-K10-NS	10.0	2.05	-50~+160	80,000~90,000

*STP-K10-NS : Silicon-free thermal paste.

Product performance

Comparison of temperature differences with different manufacturers of products. The lower dT (induction point temperature difference) or R (thermal resistance) is better.

		Product	T1	T2	dT	K (W/mK)	R	Note
A	AMI	STP-K10	70.42	60.65	9.76	-	0.146	$^{\circ}\text{C}\cdot\text{cm}^2/\text{W}@88.17\text{ psi}$
B	AMI	STP-K10-NS	70.21	61.41	8.80	-	0.092	$^{\circ}\text{C}\cdot\text{cm}^2/\text{W}@88.17\text{ psi}$
C	Others-C	-	71.03	60.58	10.45	3	0.07	$^{\circ}\text{C}\cdot\text{cm}^2/\text{W}@100\text{ psi}$
D	Others-C	-	71.18	60.99	10.18	3.5	N/A	N/A
E	Others-J	-	70.09	61.25	8.83	8.9	0.08	$^{\circ}\text{C}\cdot\text{cm}^2/\text{W}@60\text{ psi}$

Applications

- (1) Thermal interface materials: used in computer heat conduction and cooling, electronic devices, large screen display, LED lighting, and any needs for thermal management products.
- (2) Electromagnetic shielding material.



All information and properties are obtained from the tests that Angstrom believes to be accurate. However, these values are presented for comparison purposes and do not represent a guarantee by the manufacturer. The customer should carry out their own tests of suitability for particular applications. Please contact our technical service department for further information regarding Angstrom's products.

