



## Nano composite heat sink paste

### Product description:

Our nano composite heat sink paste is composed of the composite powder of MWCNT, AlN, ZnO, the surface passivated Al powder and silicone oil.

By the way of nano modification and dispersing technology, this product can promote the compatibility of heat conductive material and the matrix, makes the effective heat conductive material content to increase, and controls operation and fluidity, promotes the heat conduction effect.

In the meantime, by the way of nano modification, to reduce the specific gravity of the paste, may increase the spreading area to 1.5~2.0 times of other heat sink pastes, achieves the heat conduction specification which the design needs and reduces the cost effectively.

**Ingredients:** AlN, MWCNT, Al, ZnO, silicone oil, rubber

### Specifications:

Model number	VE-990607	VE-990712	VE-990804
Color	Gray	Gray	Gray
Viscosity (cps)	$1.5 \times 10^6 \sim 1.7 \times 10^6$	$6.0 \times 10^5 \sim 7.0 \times 10^5$	$6.0 \times 10^5 \sim 7.0 \times 10^5$
Specific gravity (g/mL)	1.8 +/- 0.2	2.0 +/- 0.2	2.1 +/- 0.2
Surface Resistance ( $\Omega$ /sq)	$< 10^{14}$	$< 10^{14}$	$< 10^{14}$
Weight Loss (%)	2.5 +/- 0.2	2.5 +/- 0.2	2.5 +/- 0.2
Thermal Conductivity Coefficient(W/m · K)	4.8 +/- 0.2 (thickness=0.192 mm)	5.3 +/- 0.2 (thickness=0.102 mm)	5.6 +/- 0.2 (thickness=0.100 mm)
Working temperature (°C)	-50 ~ 200	-50 ~ 200	-50 ~ 200
Shelf Life	One year	One year	One year

※ Thermal conductivity is measured under the conditions of loading=10Kg, heat source=10W

This product is compliance with the test of Rohs. (No cadmium, lead, mercury, hexavalent chromium, polybrominated biphenyls, and polybrominated diphenyl ethers contained)

### Scope of application:

Nano composite heat sink paste can be used in electronic components and devices.

**Storage:** Please store this product in a dry and dark place.

**Packing:** 1Kg/bottle or 10Kg/barrel

※ This instruction leaflet is only intended for reference purpose with no guarantee nature, please test the suitability of this product before using.

