

Huitian Adhesives for photovoltaic inverters

- ◆ Inductor potting protection
- ◆ Magnetic core bonding and fixing

Inductor potting adhesives for inverters

5296 addition-type thermally conductive potting silicone rubber

- ◆ Two-component (1:1), grey, high thermal conductivity type
- ◆ High thermal conductivity of 1.0W/m·K, flame retardant, good resistance to toxicity
- ◆ UL94V-0 certified, RTI temperature 150°C (Certificate No.: E306078).

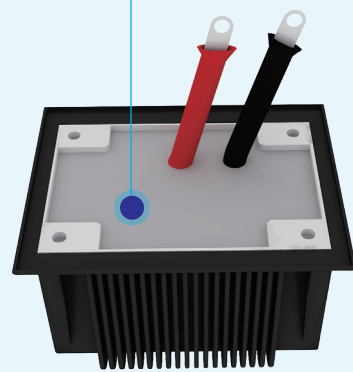
5297 addition-type bonding and waterproof potting silicone rubber

- ◆ Two-component (1:1), grey, high thermal conductivity type
- ◆ High thermal conductivity of 1.0W/m·K, flame retardant, low viscosity, good aging resistance
- ◆ UL94V-0 certified, RTI temperature 150°C (Certificate No.: E306078).
- ◆ Suitable for high thermal conductivity potting protection for inverter inductors

5299 addition-type potting silicone rubber

- ◆ Two-component (1:1), grey, general purpose
- ◆ Low viscosity, good leveling, thermal conductivity of 0.7W/m·k, flame retardant, good resistance to toxicity
- ◆ UL94V-0 certified, RTI temperature 150°C (Certificate No.: E306078).
- ◆ Suitable for high thermal conductivity potting protection for inverter inductors

- ◆ Rapid heat conduction, reduced power supply / magnetic core temperature and balanced overall temperature avoid excessive device temperature



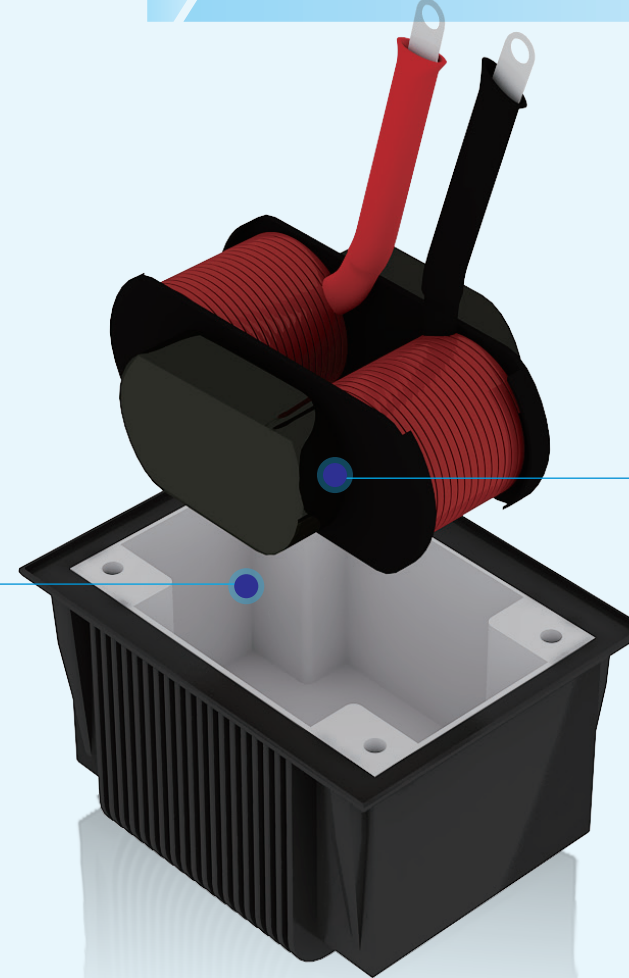
Inductor potting adhesive

- 529X series

Product name	Appearance		Viscosity (mPa·s) 25°C	Density (g/ml)		Curing time (@25°C, 60%RH)	Volume resistivity (Ωcm)	Thermal expansion coefficient (ppm)	Thermal conductivity (W/m·K)	Working temperature (°C)
	A	B		A	B					
5296	Grey fluid	White fluid	4,000	1.92	1.95	120min	> 1.0X10 ¹⁴	231	1.0	-50~200
5297	Grey fluid	White fluid	3,500	2.55	2.55	120min	> 1.1X10 ¹⁴	163	1.5	-50~200
5299	Grey fluid	White fluid	3,000	1.58	1.58	90min	> 1.5X10 ¹⁴	220	0.7	-50~200

- ◆ Heat aging test (150°C/1,000h)
Hardness 89.36HD, shear strength 15.6MPa

- ◆ Test after cold and hot cycle impact test (-40~125°C/120mins, 500 cycles)
Hardness 90.51HD, shear strength 15.5MPa

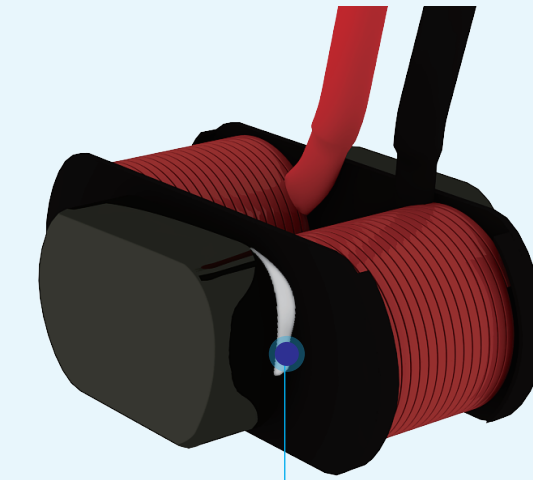


Magnetic core bonding adhesive

- 6065

- ◆ High-temperature aging test under 150°C for 50 days
No cracking after aging, no separation from the shell, hardness change rate of only 5%

- ◆ High and low temperature impact test for 50 days (-40~125°C/120mins, 500 cycles)
No cracking after aging, no separation from the shell, hardness change rate of only 3%



Inductor potting adhesives for inverters

- ◆ High-strength, high-toughness structure bonding and fixing of devices to prevent noise caused by detachment of magnetic core and support under high temperature

6065 one-component, heat-curing structural bonding epoxy adhesive

- ◆ One component, grey
- ◆ High thixotropy, structural bonding
- ◆ High-strength bonding
- ◆ Low shrinkage, excellent temperature resistance

Product name	Appearance	Viscosity mPa·s GB/T2794	Density g/cm ³ GB/T13354	Hardness Shore D GB/T531	Glass transition temperature T _g °C GB/T11998	Shear strength MPa steel-steel GB/T7124	Impact strength KJ/m ² GB/T1843	Curing time mins			Working temperature °C
								120°C	150°C	180°C	
6065	Grey paste	55,000	1.55	≥ 75	145	≥ 15.5	≥ 5	30	15	10	-50~200