

## Technical Data Sheet

### EVSE500AB Thermal Gel 5.0W/mK

EVSE500AB is a soft silicone-based thermally conductive gap-filling material with high thermal conductivity, low interfacial thermal resistance and good thixotropy. It is an ideal material for applications with large gap tolerances. It is filled between the electronic components to be cooled and the heat sink/housing, etc., making them in close contact, reducing thermal resistance, and quickly and effectively reducing the temperature of the electronic components, thereby extending the life of the electronic components and improving their reliability. The EVSE500AB can be applied by hand or by dispensing equipment.



## Applications

- ✓ Hard disk, mobile phone
- ✓ Optical precision equipment
- ✓ Laptop
- ✓ Mobile and communication equipment
- ✓ Automobile engine control equipment
- ✓ High-end industrial control and medical electronics



Product performance	Test Results		Test Standard
Before mixing	A component	B component	
Color	Pink	White	Visual
Density (g/cm <sup>3</sup> )	3.2	3.2	Helium vacuum
Mixing ratio	1:1		N/A
Shelf life @25°C (month)	6	6	N/A
Mixed performance			
Color	Gray		Visual
Volume Resistance	>1014Ωcm		ASTM D257
Thermal conductivity	5.0W/m.k		ASTM D5470
Dielectric breakdown strength @AC	>6000V		ASTM D149
Dielectric constant	5.5		ASTM D150
Minimum interface thickness	0.15mm		N/A
Operating temperature	-50~150		N/A
Small silicon molecules precipitated D3 D12 content	<300PPM		GB/T 27843-2011
Thermal expansivity	175PPM/k		ASTM E831
Flammability	V-0		UL
Surface drying time @25°C (Min)	20		N/A
Complete curing time			
25°C (H)	4		N/A
100°C (min)	15		N/A
Hardness after curing (Shore00)	55±10		ASTM D2240
RoHS	PASS		IEC 62321
Halogen	PASS		EN14582
REACH	PASS		EN14372

Our products have passed 1000 hours cold and hot shock test, 1000 hours double 85 test, 1000 hours high temperature aging test. CRT is committed to providing the most reliable heat conduction solutions for automobile, communication, security and other industries.

## CR Technology, Inc

📍 55 Chase St. Methuen, Massachusetts 01844

✉ sales@crtechinc.com

☎ 978.681.5300

**Note:** The information provided herein is accurate at time of publication. It is the responsibility of the end-user to confirm compliance to their application. All test data is typical. Therefore, these recommendations and data are for reference only and not as a product warranty.