AOS Thermal Compounds, LLC

AOS SILICONE HEAT SINK CMPD

***Product Code:* 54013**

TECHNICAL DATA SHEET

Product Description

AOS *Silicone* Heat Sink Compound is a silicone-based thermal grease made from a silicone fluid thickened with metal oxide fillers. The product offers high thermal conductivity, virtually no bleed or evaporation over a wide operating temperature range. It will not harden, dry out or melt after 1,000 hours at 200°C.

Product Benefits and Features

Grease-like consistency; opaque white in color; zero bleed; very stable at elevated temperatures; excellent thermal resistance and high thermal conductivity; efficient thermal coupler; effective and positive heat sink sealers and heat transfer agent.

Major Applications

Mounting transistors, diodes, rectifiers and resistors. Thermal joint compound for any device where efficient cooling is desired.

Methods of Application

By hand brushing or wiping. Also, automatic dispensing methods save labor and material.

Typical Properties

Property	Value	Test Method
Consistency (Penetration, worked, 60x)	340	ASTM D-217
Specific Gravity, @ 25°C	2.2	ASTM D-70
Bleed, @ 200°C, 24 Hrs., %/Wt	0.50	FTM-321 MODIFIED
Evaporation, @ 200°C, 24 Hrs., %/Wt.	0.50	FTM-321 MODIFIED
Thermal Conductivity, @ 36°C		
Cal/Sec. Cm.°C	17.5×10^{-4}	HOT WIRE METHOD
BTU.In/(Hr.Ft^2.°F)	5.1	PER MIL-C-47113B
W/m.°K	0.73	
Electrical Properties		
Dielectric strength, 0.05" gap, V/mil	400	ASTM D-149
Dielectric constant, 25°C @ 1,000 Hz	4.90	ASTM D-150
Dissipation factor, 25°C @ 1,000 Hz	0.0011	ASTM D-150
Volume Resistivity, ohm-cm	1.96×10^{15}	ASTM D-257
Operating Temperature Range	-55°C to 205°C	
Flow Rate grams/min. @ 50PSI	18-20	AOS Method
Appearance	White Paste	

Please know that customers are responsible for testing AOS Thermal Compounds materials for their proposed use. Any information furnished by AOS Thermal Compounds and its agents is believed to be reliable, but AOS Thermal Compounds does not guarantee the results to be accurate and makes no warranties as to the fitness, merchantability, or suitability of any AOS material or product for any specific or general use and shall not be held liable for incidental or consequential damages of any kind. (040201)

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