



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.** Meets Mil-C-47009 and Mil-C-47113 Type I.

Product Features & Benefits

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
Specific Gravity , @ 25°C	2.8	ASTM D70
Bleed , @ 200°C, 24 Hrs., %/Wt	0.5%	ASTM D6184-17
Viscosity , 1 sec ⁻¹ , cPs, 25°C/50°C	432,000/415,000	Rheometer
Evaporation , @ 200°C, 24 Hrs., %/Wt.	0.5%	
Thermal Conductivity , @ 25°C, W/m-K	0.9	ASTM D5470-17
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
Operating Temperature Range , °C	-55 to 205	
Flow Rate , g/min	15 to 18	AOS Method
Appearance	Smooth, white paste	
Shelf Life	5 Years	

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*30cc Syringe, 0.08" orifice at 50 PSI, at 25°C