



**TECHNICAL DATA SHEET**

**Product Description**

AOS ELECTRICALLY CONDUCTIVE GREASE is a NON-SILICONE-based, chemically inert heat sink compound that is thermally stable. This advanced grease offers *premium electrical and thermal conductivity*.

**The Non-Silicone Advantage**

Silicone-based compounds have an undesirable tendency to physically migrate and contaminate components nearby. This interferes with circuit operation long after hardware installation to cause unexpected, untimely and often inaccessible problems. The AOS Heat Sink Compound's *no creep* feature extends circuit life by protecting components longer and by eliminating premature failure of adjacent components caused by migrating silicone base fluid.

**Major Applications**

Thermal applications for compound include the dissipation of heat from high power electronic components such as power resistors, rectifiers, transistors and transformers.

Low power electronic applications include static drain, grounding, *soft* electronic connections, heat dissipation, and assembly protection. Compound can be used in high power electrical applications to improve the operational efficiency of high power switches and other sliding metal contacts.

**Typical Properties**

<u>Property</u>	<u>Value</u>	<u>Test Method</u>
<b>Specific Gravity, @ 25°C</b>	N/A	ASTM D-70
<b>Bleed, @ 200°C, 24 Hrs., %/Wt</b>	0.5 %	FTM-321 MODIFIED
<b>Viscosity, 1 sec<sup>-1</sup>, 25°C/50°C</b>	910,000/730,000 cP	ARES G-2 RHEOMETER
<b>Evaporation, @ 200°C, 24 Hrs., %/Wt.</b>	1.0 %	FTM-321 MODIFIED
<b>Thermal Conductivity, @ 36°C</b>	1.0 W/m-K	ASTMD 5470-06
<b>Thermal Resistance, @ 50°C</b>	0.080 °C/W	Oracle TTV Model 270-7806-01
<b>Electrical Properties</b>		
Dielectric strength, 0.05" gap, V/mil	N/A	ASTM D-149
Dielectric constant, 25°C @ 1,000 Hz	N/A	ASTM D-150
Dissipation factor, 25°C @ 1,000 Hz	N/A	ASTM D-150
Volume Resistivity, ohm-cm	304	ASTM D-257
<b>Operating Temperature Range</b>	-40°C to 200°C	
<b>Appearance</b>	Smooth, Black Paste	
<b>Shelf Life</b>	5 Years	

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