



TECHNICAL DATA SHEET

Product Description

AOS CONDUCTIVE GREASE is a silver-filled, NON-SILICONE-based, chemically inert; heat sink compound. 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 as well as providing an electrical path between surfaces.

Low power electronic applications include static drain, grounding, *soft* electronic connections, heat dissipation, and assembly protection. The 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>
Specific Gravity, @ 25°C	N/A	ASTM D-70
Bleed, @ 200°C, 24 Hrs., %/Wt	0.50 %	FTM-321 MODIFIED
Viscosity, 1 sec⁻¹, 25°C/50°C	910,000/730,000 cP	ARES G-2 RHEOMETER
Evaporation, @ 200°C, 24 Hrs., %/Wt.	1.0 %	FTM-321 MODIFIED
Thermal Conductivity, @ 36°C	2.7 W/m-K	ASTMD 5470-06
Thermal Resistance, @ 50°C	0.080 °C/W	Oracle TTV Model 270-7806-01
Electrical Properties		
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	< 0.01	ASTM D-257
Operating Temperature Range	-40°C to 200°C	
Appearance	Smooth, Off-White Paste	
Shelf Life	5 Years	

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. (040206)