



AOS 52137 Grease

Product Code: 52137



TECHNICAL DATA SHEET

Product Description

AOS 52137 Grease is a non-silicone based thermal grease that goes beyond the original AOS 52022, Wakefield 126, Aavid Sil-free, GC Type 44 and Tech Spray 1978 in terms of thermal resistance. The **52137** exhibits an very thin bond line, has higher thermal conductivity, and can be removed with either water or typical paint thinner. Typical thermal greases are extremely difficult to clean off parts, hands and clothing; AOS 52137 cleans up easily. This material has the same durability in cooling applications as the original 52022.

Product Features & Benefits

AOS 52137 Grease is non-silicone based, non-reactive, and non-abrasive with a soft, grease-like consistency with a tendency to flow and spread on a surface (Newtonian flow). It has excellent dielectric properties and a thermal performance better than standard heat sink compounds on the market.

Major Applications

AOS 52137 Grease is designed to be applied where thermal coupling is required and where a device may need to be removed from the heat sink at a later time. Major applications include power transistors, diodes, and silicone control rectifiers. It is also an effective thermal joint compound for any device where efficient cooling is desired.

Typical Properties

<u>Property</u>	<u>Value</u>	<u>Test Method</u>
Consistency (Penetration, worked, 60x)	400	ASTM D-217
Specific Gravity, @ 25°C	2.5	ASTM D-70
Bleed, @ 150°C, 24 Hrs., %/Wt	0.0	FTM-321 MODIFIED
Evaporation, @ 150°C, 24 Hrs., %/Wt.	1.0	FTM-321 MODIFIED
Thermal Conductivity, @ 36°C W/m-K	1.1	ASTM D-5470-06
Anticipated Minimum Bond line (mils) Based on filler dimensions	0.2 mil	
Electrical Properties		
Dielectric strength, 0.05" gap, V/mil	265	ASTM D-149
Dielectric constant, 25°C @ 1,000 Hz	5.02	ASTM D-150
Dissipation factor, 25°C @ 1,000 Hz	0.0022	ASTM D-150
Volume Resistivity, ohm-cm	2.0×10^{15}	ASTM D-257
Operating Temperature Range	-40°C to 180°C	
Flow Rate grams/min.	6-7	AOS Method # 1
Appearance	Smooth White Paste	

22 Meridian Road, Suite 6, Eatontown, New Jersey 07724

732-389-5514 • fax 732-389-6380 • e-mail sales@aosco.com • web <http://www.aosco.com>