



AOS Thermal Compounds

AOS WATER CLEANABLE HTC

Product Code: 52051



TECHNICAL DATA SHEET

Product Description

AOS 52051 Non-Silicone Water Cleanable **HTC** (High Thermal Conductivity) *thermal grease* was developed by AOS to avoid the use of solvents and/or labor intensive clean up of messy heat sink compounds. **AOS 52051 will easily clean off hands or clothing with a damp cloth or by running under water.** Metal and plastic components and tools may only require a dry cloth to remove the compound.

Product Features & Benefits

AOS 52051 is non-silicone based, non-reactive, and non-abrasive with a soft, grease-like consistency. The flow is similar to our standard non-silicone based product, 52022. It has excellent dielectric properties and a thermal conductivity 2 times greater than our standard water cleanable products. AOS 52051 will not phase separate and has no volatile content or special storage requirements.

Typical Properties

<u>Property</u>	<u>Value</u>	<u>Test Method</u>
Consistency (Penetration, worked, 60x)	320 - 340	ASTM D-217
Specific Gravity , @ 25°C	2.6	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 , W/m-K @ 36 °C	1.9	ASTM 5470-95 (modified)
Anticipated Minimum Bond Line (mils) Based on Filler Dimensions	< 1	
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 X 10 ¹⁵	ASTM D-257
Operating Temperature Range	-40°C to 160°C	
Flow Rate grams/min.	5-15	AOS Method #2
Appearance	Dark Grey Paste	

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