



# AOS WATER CLEANABLE HTC 90

Product Code: 52051



## TECHNICAL DATA SHEET

### Product Description

**AOS 52051 Non-Silicone** Water Cleanable **HTC 90** (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>
<b>Consistency</b> (Penetration, worked, 60x)	320 - 340	ASTM D-217
<b>Specific Gravity</b> , @ 25°C	2.6	ASTM D-70
<b>Bleed</b> , @ 150°C, 24 Hrs., %/Wt	0.0	FTM-321 MODIFIED
<b>Evaporation</b> , @ 150°C, 24 Hrs., %/Wt.	1.0	FTM-321 MODIFIED
<b>Thermal Conductivity</b> , W/m-K @ 36 °C	4.6	ASTM D-5470-06
<b>Anticipated Minimum Bond Line (mils)</b> Based on Filler Dimensions	< 1	
<b>Electrical Properties</b>		
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 <sup>15</sup>	ASTM D-257
<b>Operating Temperature Range</b>	-40°C to 160°C	
<b>Flow Rate grams/min.</b>	5-15	AOS Method #2
<b>Appearance</b>	Dark Grey Paste	

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