



AOS Thermal Compounds

# AOS NON-SILICONE HTC

Product Code: 52050



## TECHNICAL DATA SHEET

### Product Description

AOS 52050 is our highest conductivity, non-silicone, thixotropic thermal grease. (For a non-silicone, low BLT material without metal particles see 52050-1) The material will never bleed, phase separate or pump out under typical applications, and will survive temperatures up to 200°C.

### Product Features and Benefits

AOS 52050 has no special storage requirements, has no volatile content, is non-reactive, has excellent humidity resistance and thermal stability.

- As with our entire line of Heat Sink Compounds, the AOS technical staff can modify AOS 52050 to meet your requirements.
- AOS 52050 is available in syringes, jars, tubes, and bulk packaging.

### Typical Properties

<u>Property</u>	<u>Value</u>	<u>Test Method</u>
Consistency (Penetration, worked, 60x)	150	ASTM D-217
Specific Gravity, @ 25°C	2.6	ASTM D-70
Bleed, @ 200°C, 24 Hrs., %/Wt	0.3	FTM-321 MODIFIED
Evaporation, @ 200°C, 24 Hrs., %/Wt.	0.50	FTM-321 MODIFIED
Thermal Conductivity, @ 36°C W/m- K	3.8	ASTM 5470-95 (modified)
Anticipated Minimum Bond line (mils)		Determined @ 1, 2, 5 and 20 mil thicknesses
Based on Filler Dimensions	1	
Operating Temperature Range	<-55°C to 200°C	
Flow Rate grams/min.	1 to 3	AOS Method #1
Appearance	Stiff Dark Gray Paste	

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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.

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