

## TECHNICAL DATA SHEET



### Product Description

**52070** is our highest conductivity, non-silicone, thixotropic thermal gap filler. (For a non-silicone, low BLT material, without metal particles see **52050**). The material will never bleed, phase separate or pump out under typical applications, and will survive temperatures up to 200°C for brief periods.

### 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.

### Product Features & Benefits

**52070** has no special storage requirements, has no volatile content, is non-reactive, and has excellent humidity resistance and high thermal stability.

As with our entire line of Heat Sink Compounds, the AOS technical staff can modify 52070 to meet your requirements.

52070 is available in cartridges, jars, and bulk packaging.

### Typical Properties

<u>Property</u>	<u>Value</u>	<u>Test Method</u>
<b>Specific Gravity</b> , @ 25°C, g/ml	3.3	ASTM D-70
<b>Bleed</b> , @ 200°C, 24 Hrs., %/Wt	0.3	ASTM 6814
<b>Viscosity</b> , 1 sec <sup>-1</sup> , cPs	1,400,000 (25°C)	RHEOMETER
<b>Evaporation</b> , @ 150°C, 24 Hrs., %/Wt.	0.2	ASTM 6814
<b>Thermal Conductivity</b> , @ 25°C, W/m-K	8.3	ASTMD 5470-17
<b>Anticipated Minimum Bond Line</b> , mil	3	
<b>Operating Temperature Range</b> , °C	-55 - 200	
<b>Flow Rate</b> , g/min	0.5 - 1.5	AOS Method*
<b>Appearance</b>	Gray Paste	
<b>Shelf Life</b>	5 Years	

\*30cc Syringe, 0.08" orifice at 50 PSI, at 25°C

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