



AOS Thermal Compounds, LLC

# AOS NON-SILICONE XT

*Product Code: 52027*

## TECHNICAL DATA SHEET

### Product Description

**AOS Non-Silicone XT Heat Sink Compound** is recommended for *high-temperature heat transfer and low Out gassing* in silicone-sensitive applications. It is a non-silicone-based thermally conductive white paste/grease, compounded with 100% synthetic base stocks. **Non-Silicone XT** offers high thermal conductivity and virtually no bleed or evaporation over a wide operating temperature range. By maximizing system efficiencies (energy, speed, weight, temperature, materials of construction), **Non-Silicone XT** optimizes system cost, mechanical reliability, and service life.

### Product Benefits and Features

Stable at continuous operating temperatures **up to 350°C (662°F)** with the same unique advantages of our standard non-silicone heat sink compound. No bleed; excellent thermal resistance and high thermal conductivity; efficient thermal coupler; effective and positive heat sink sealers and heat transfer agent. Possesses excellent resistance to degradation from heat, oxygen, radiation, hydrolysis, and chemical attack. Is compatible with all metals and elastomers commonly used in high temperature applications.

### Major Applications

While suitable for traditional applications requiring a non-silicone thermal grease, **Non-Silicone XT** is especially appropriate when there is an intentional heat source, such as a heating element, calrod, etc., that requires continuous operation ranging up to 350°C.

### Methods of Application

By hand brushing or wiping. Automatic dispensing methods save labor and material.

### Typical Properties

<u>Property</u>	<u>Value</u>	<u>Test Method</u>
<b>Consistency</b> (Penetration, worked, 60x)	250 - 350	ASTM D-217
<b>Specific Gravity</b> , @ 25°C	2.4	ASTM D-70
<b>Bleed</b> , @ 300°C, 24 Hrs., %/Wt	nil	FTM-321 MODIFIED
<b>Evaporation</b> , @ 300°C, 24 Hrs., %/Wt.	0.8	FTM-321 MODIFIED
<b>Out Gassing</b> %TML	<b>0.35</b>	<b>ASTM E-595</b>
%VCM	<b>0.10</b>	
<b>Thermal Conductivity</b> , @ 36°C		
Cal/Sec. Cm.°C	17.8 x 10 <sup>-4</sup>	HOT WIRE METHOD
BTU.In/(Hr.Ft <sup>2</sup> .°F)	5.2	PER MIL-C-47113B
W/m.°K	0.75	
<b>Electrical Properties</b>		
Dielectric strength, 0.05" gap, V/mil	293	ASTM D-149
Dielectric constant, 25°C @ 1,000 Hz	4.92	ASTM D-150
Dissipation factor, 25°C @ 1,000 Hz	0.0013	ASTM D-150
Volume Resistivity, ohm-cm	1.03 x 10 <sup>13</sup>	ASTM D-257
<b>Operating Temperature Range</b>	<b>10°C to 350°C</b>	
<b>Flow Rate grams/min.</b>	2 to 5	AOS Method
<b>Appearance</b>	White Paste	

Please know that 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. (012102)

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