



# AOS NON-SILICONE XT-2

Product Code: 52030



## TECHNICAL DATA SHEET

### Product Description

**AOS Non-Silicone XT-2 Heat Sink Compound** is recommended for *high-temperature heat transfer* in silicone sensitive applications. **Non-Silicone XT-2** is a non-silicone-based thermally conductive white paste/grease, compounded with 100% synthetic base stocks. The product offers high thermal conductivity and virtually no bleed or evaporation over a wide operating temperature range.

### Product Benefits and Features

Stable at continuous operating temperatures **up to 250°C** with the same unique advantages of our standard non-silicone heat sink compound. Nonflammable, oxidation resistant, and does not promote rust or corrosion. No bleed; excellent thermal resistance and high thermal conductivity; efficient thermal coupler; effective and positive heat sink sealers and heat transfer agent. 5-year minimum shelf life. Compatible with rubber and plastic.

### Major Applications

While suitable for traditional applications requiring a non-silicone thermal grease, **Non-Silicone XT-2** is especially appropriate when there is an intentional heat source, such as a heating element, calrod, etc., that requires continuous operation at temperatures exceeding 200°C.

### Methods of Application

By hand brushing or wiping. Also, 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> , @ 200°C, 24 Hrs., %/Wt	0.20	FTM-321 MODIFIED
<b>Evaporation</b> , @ 200°C, 24 Hrs., %/Wt.	0.50	FTM-321 MODIFIED
<b>Thermal Conductivity</b> , @ 36°C W/m-K	0.95	ASTM D 5470-06
<b>Electrical Properties</b>		
Dielectric strength, 0.05" gap, V/mil	353	ASTM D-149
Dielectric constant, 25°C @ 1,000 Hz	4.86	ASTM D-150
Dissipation factor, 25°C @ 1,000 Hz	0.0019	ASTM D-150
Volume Resistivity, ohm-cm	$7.28 \times 10^{13}$	ASTM D-257
<b>Operating Temperature Range</b>	<b>-40°C to 250°C</b>	
<b>Flow Rate grams/min.</b>	2 to 5	AOS Method
<b>Appearance</b>	White Paste	

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