

TECHNICAL DATA SHEET



Product Description

AOS Non-Silicone XT-4 Heat Sink Compound is recommended for [high-temperature heat transfer](#) in silicone sensitive applications. **Non-Silicone XT-4** is a non-silicone-based thermally conductive gray paste/grease, compounded with 100% synthetic base stocks. This product offers very high thermal conductivity with virtually no bleed or evaporation over a wide operating temperature range.

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

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-4** 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.

Typical Properties

<u>Property</u>	<u>Value</u>	<u>Test Method</u>
Specific Gravity , @ 25°C, g/ml	2.8	ASTM D70
Bleed , @ 200°C, 24 Hrs., %/Wt	0.2	ASTM D6184-17
Viscosity , 1 sec ⁻¹ , cPs	1,000,000/640,000 (25°C/50°C)	RHEOMETER
Evaporation , @ 150°C, 24 Hrs., %/Wt.	0.2	
Thermal Conductivity , @ 25°C, W/m-K	5.0	ASTM D5470-17
Anticipated Minimum Bond Line , um	30	
Operating Temperature Range , °C	-40 - 260	
Flow Rate , g/min	1 - 2	AOS Method*
Appearance	Gray Paste	
Shelf Life	5 Years	

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

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