



AOS NON-SILICONE XT-3

Product Code: 52039



TECHNICAL DATA SHEET

Product Description

AOS Non-Silicone XT-3 Heat Sink Compound is recommended for high-temperature heat transfer in silicone sensitive applications where **out gassing** is the main concern. **Non-Silicone XT-3** is a non-silicone, thermally conductive white paste/grease, compounded with 100% synthetic base stocks. The product offers high thermal conductivity and virtually no bleed, evaporation and **no out gassing** over a wide operating temperature range.

Product Benefits and Features

Stable at continuous operating temperatures **up to 250°C** with all the unique advantages of our standard non-silicone heat sink compound, including no creep, bleed, migration or contamination. Nonflammable, oxidation resistant, and does not promote rust or corrosion. Excellent thermal resistance and high thermal conductivity; efficient thermal coupler; effective heat sink sealer and heat transfer agent. Five-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-3** is especially appropriate when **out gassing** is a concern and there is an intentional heat source 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>
Consistency (Penetration, worked, 60x)	240	ASTM D-217
Specific Gravity , @ 25°C	2.4	ASTM D-70
Bleed , @ 200°C, 24 Hrs., %/Wt	0.0	FTM-321 MODIFIED
Evaporation , @ 200°C, 24 Hrs., %/Wt.	0.05	FTM-321 MODIFIED
Out Gassing. %TML	0.36	ASTM E-595
% VCM	0.9	
Thermal Conductivity , @ 36°C		
W/m- K	0.7	ASTM D 5470-06
Electrical Properties		
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 x 10 ¹³	ASTM D-257
Operating Temperature Range	-20°C to 250°C	
Flow Rate grams/min.	2 to 5	AOS Method
Appearance	White Paste	

22 Meridian Road, Suite 6, Eatontown, New Jersey 07724

732-389-5514 • fax 732-389-6380 • e-mail sales@aosco.com • web <http://www.aosco.com>