



AOS SILICONE XT

Product Code: 54011

TECHNICAL DATA SHEET



Product Description

AOS Silicone XT Heat Sink Compound is recommended for *high-temperature heat transfer*. **Silicone XT** is a silicone-based thermal grease made from a silicone fluid thickened with metal oxide fillers. The product offers high thermal conductivity and virtually no bleed or evaporation over a wide operating temperature range. It has a grease-like consistency and is opaque white in color.

Product Benefits and Features

Stable at continuous operating temperatures **up to 250°C**; very little bleed; excellent thermal resistance and high thermal conductivity; efficient thermal coupler; effective and positive heat sink sealers and heat transfer agent.

Major Applications

While suitable for traditional thermal grease applications, **Silicone XT** 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>
Consistency (Penetration, worked, 60x)	250 - 350	ASTM D-217
Specific Gravity , @ 25°C	2.4	ASTM D-70
Bleed , @ 200°C, 24 Hrs., %/Wt	0.20	FTM-321 MODIFIED
Evaporation , @ 200°C, 24 Hrs., %/Wt.	0.50	FTM-321 MODIFIED
Thermal Conductivity , @ 36°C W/m.°K	0.91	ASTM D-5470-06
Electrical Properties		
Dielectric strength, 0.05" gap, V/mil	301	ASTM D-149
Dielectric constant, 25°C @ 1,000 Hz	3.98	ASTM D-150
Dissipation factor, 25°C @ 1,000 Hz	0.0020	ASTM D-150
Volume Resistivity, ohm-cm	5.59 x 10 ¹³	ASTM D-257
Operating Temperature Range	-40°C to 250°C	
Flow Rate grams/min.	2 to 5	AOS Method
Appearance	White Paste	

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