



AOS 340 WC
Product Code: 52055



TECHNICAL DATA SHEET

Product Description

AOS 340 WC (Water Cleanable) **52055** is a non-silicone based thermal grease developed to replace all general purpose silicone and non-silicone thermal greases. **52055** has twice the conductivity of standard thermal greases, but more importantly, it will spread into a very thin bond line for extremely low thermal resistance. **52055** also resists pump-out, more than typical thermal greases, and despite the increased reliability and durability, it cleans up with only water.

Product Features & Benefits

AOS 340 WC is non-silicone based, non-reactive, and non-abrasive with a soft, grease-like consistency, thixotropic behavior and excellent dielectric properties. The thermal performance of 52055 is far better than standard heat sink compounds and even most premium thermal greases on the market.

Major Applications

AOS 340 WC is designed to be applied where thermal coupling is required and where a device may need to be removed from the heat sink at a later time. Major applications include power transistors, diodes, and silicone control rectifiers. It is also an effective thermal joint compound for any device where efficient cooling is desired.

Typical Properties

<u>Property</u>	<u>Value</u>	<u>Test Method</u>
Consistency (Penetration, worked, 60x)	340	ASTM D-217
Specific Gravity , @ 25°C	2.8	ASTM D-70
Bleed , @ 150°C, 24 Hrs., %/Wt	0.0	FTM-321 MODIFIED
Evaporation , @ 150°C, 24 Hrs., %/Wt.	1.0	FTM-321 MODIFIED
Thermal Conductivity , @ 36°C W/m-K	1.3	ASTM D-5470-06
Anticipated Minimum Bond line (mils) Based on filler dimensions	0.5 mil	
Electrical Properties		
Dielectric strength, 0.05" gap, V/mil	265	ASTM D-149
Dielectric constant, 25°C @ 1,000 Hz	5.02	ASTM D-150
Dissipation factor, 25°C @ 1,000 Hz	0.0022	ASTM D-150
Volume Resistivity, ohm-cm	2.0 X 10 ¹⁵	ASTM D-257
Operating Temperature Range	-40°C to 180°C	
Flow Rate grams/min.	2 to 7	AOS Method # 1
Appearance	Smooth White Paste	

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