

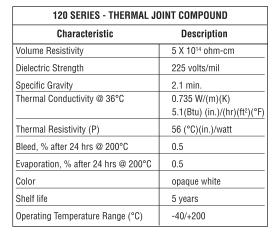
THERMAL COMPOUNDS, ADHESIVES AND INTERFACE MATERIALS

120 SERIES



The **120 Series** Silicone Oil-Based Thermal Joint Compound fills the minute air gap between mating surfaces with a grease-like material containing zinc oxide in a silicone oil carrier. It possesses an excellent thermal resistance of only 0.05°C/W for a 0.001 in. film with an area of one square inch. There is no measurable increase in case temperature of a mounted semiconductor on a heat sink after the 6-month stabilization period (Time versus Thermal Resistivity graph below).

TYPICAL VALUES FOR THERMAL RESISTANCE, CASE TO SINK (Ø _{CS}) WHEN THERMAL JOINT COMPOUNDS ARE USED				
	Mounting Torque in inch • pounds	Typical Thermal Resistance		
Case Style Characteristics	(N•M)	(°C/W)		
T0-3	8 (0.9)	0.09		
TO-66	9 (0.9)	0.14		
TO-220	8 (0.9)	0.50		
0.19 (4.8) stud x 0.44 (11.2) hex	15 (1.7)	0.16		
0.25 (6.4) stud x 0.69 (17.5) hex	30 (3.39)	0.10		
0.38 (9.7) stud x 1.06 (26.9) hex	75 (8.47)	0.07		
0.50 (12.7) stud x 1.06 (26.9) hex 0.75 (19.1) stud x 1.25 (31.8) hex	125 (14.12) 600 (67.79)	0.07 0.052		



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120 SERIES - ORDER GUIDE		
Series - P/N	Container Size	
120-SA	4 gram plastic pak	
120-2	2 oz (0.06 kg) jar	
120-5	5 oz (0.14 kg) tube	
120-8	8 oz (0.23 kg) jar	
120-80	5 lb (2.27 kg) can	
120-320	20 lb (9.08 kg) can	

HIGH PERFORMANCE THERMAL COMPOUND

122 SERIES



122 Series Thermal Joint Compound is a stable, silicone based, thixotropic paste developed to provide premium performance at an affordable price. It is formulated to significantly reduce contact thermal resistance where power densities are concentrated in devices such as flip chip, reduced die size, and 'overclock' microprocessors. When applied as a thin film between a Wakefield heat sink and device it possesses superior thermal conductivity compared to traditional 'grease'. It is compatible with automated or manual dispensing methods and is fully RoHS compliant.

122 SERIES THERMAL JOINT COMPOUND		
Typical Characteristics	Description	
Appearance	Smooth Gray paste	
Thermal Conductivity	2.5 W / m °K, 17.3 (Btu) (in.)/(hr) (ft²) (°F)	
Thermal Resistance	0.02 °C in 2 / W	
Bleed	0.015 wt%, 24 hrs at 200°C	
Evaporation	0.150 wt%, 24 hrs at 200°C	
Volume Resistivity	1.4 x 10 ¹⁰ ohm-cm	
Dielectric Strength	225 volts/mil	
Specific Gravity	2.23 (gm/cc) at 25°C	
Operating Range	-40°C to 205°C	
Shelf Life	5 years	

122 SERIES - ORDER GUIDE			
Series - P/N	Container Size		
122-10CC	10cc syringe		
122-2	2 oz (0.06 kg) jar		
122-30CC	30cc syringe		