GC™ ELECTRONICS

PRODUCT SPECIFICATIONS SHEET

CAT NO. PRODUCT NAME

10-8118 Type 44 Non-Silicone
10-8120
10-8126

DESCRIPTION:

Type 44 Heat Sink Compound is a non-silicone based, grease-like material specially blended with thermally conductive fine metal oxide powders. Compounded from 100% synthetic base stocks, it is designed as an alternative to silicone type heat sink compounds. This material features outstanding heat transfer efficiency, viscosity, high dielectric strength and thermal stability.

APPLICATION:

Commonly used at the junction between a heat producing electrical device and the cooling medium, Type 44 Heat Sink Compound facilitates the transfer and removal of the damaging heat. The compound clings to all metal surfaces and will not melt, bleed or harden over time. This product can be used anywhere a silicone heat sink is used without the fear of silicone fluid migration.

TYPICAL PROPERTIES:

Property	Test Method	Condition	Result
Appearance			White, Smooth Grease
Worked Penetration	ASTM D-217	60 Strokes, 77°F	260
Specific Gravity		25°C/25°C	2.5
Bleed, %	FTM-791-321-3	24 hrs @ 200°C	<0.5
Evaporation, %	FTM-791.321-3	24 hrs @ 200°C	0.1
Temperature Range, °F (°C)			-22 to 390 (-30 to 200)
Dropping Point, °F (°C)	ASTM D-2265		>500 (260)
Thermal Conductivity, g-cal/sec/cm^2/°C/cm	Modified D.S.C.	36°C @ 1 sec	1.8 X 10^{-3}
W/m. °K			.7537
Dielectric Strength, volts/mil	ASTM D149	0.010" gap	645
		0.050" gap	420
Dielectric Constant	ASTM D-150	50 Hz	4.5
		1000 Hz	4.5
Dissipation Factor	ASTM D-150	50 Hz	0.0029
		1000 Hz	0.0029
Volume Resistivity, ohm.cm	ASTM D-257	RT	1 x 10^{15}

HOW TO USE:

Type 44 can be applied by various methods including automated pumping systems, by hand, by brushing, or by wiping. Type 44 can be applied by spraying or dipping by lowering the consistency of the product by diluting the compound with solvents such as mineral spirits, xylene, methyl ethyl ketone, toluene, and chlorinated ethanes.

GENERAL INFORMATION:

SHIPPING LIMITATIONS

None

SHELF LIFE, CLOSED CONTAINERS

5 years