



Thermal Compounds

TC70 thermal compounds are a product line of unique synthetic-based thermal greases with excellent thermal conductivity. They are used in industries such as electronics (computer, appliance, wireless, etc.), automotive, and electrical to ensure quick, efficient heat transfer and dissipation. The primary advantage of these non-silicone products is long-term material stability. TC70 compounds will not leach, dry, harden, or melt in normal industrial use.

TC70	TC70-340WC	PACKAGE	APPLICATION
7028323	7028332	10cc barrel, 25 g	For use with dispensers
7028324	7028333	10cc barrel, 25 g	For manual application
7028325	7028334	30cc barrel, 75 g	For use with dispensers
7028326	7028335	30cc barrel, 75 g	For manual application
7028327	7028336	55cc barrel, 100 g	For use with dispensers
7028328	7028337	6 oz cartridge, 400 g	For dispense valves
7028329	7028338	jar, 1 lb / 450 g	For manual application
7028330	7028339	pail, 80 lb / 36.3 kg	For high volume applications

TC70-57000	PACKAGE	APPLICATION
7028341	10cc barrel, 50 g	For use with dispensers
7028342	jar, 1 oz / 28 g	For manual application
7028343	jar, 100 g	For manual application
7028344	jar, 1 lb / 454 g	For manual application

Thermal Compound Choices

TC70

The most widely used non-silicone thermal compound. Major applications include mounting power transistors, power resistors, diodes and other semiconductor devices, coupling heat generating assemblies to chassis, heat transfer medium on ballast, thermal joints, thermocouple wells, and for any device where efficient cooling is required.

TC70-340WC

Ideally suited for applications where a device may need to be removed from the heat sink at a later time and cleans up with only water. This non-silicone thermal compound has high thermal conductivity, excellent dielectric properties and will spread into a very thin bond line for extremely low thermal resistance.

TC70-57000

A non-silicone thermal compound with premium electrical and thermal conductivity. Major applications include high power electronic components such as power resistors, rectifiers, transistors and transformers; low power electronic applications such as static drain, grounding, soft electronic connections, heat dissipation, and assembly protection as well as high power electrical applications to improve the operational efficiency of high power switches and other sliding metal contacts.

Specifications

Property	TC70	TC70-340WC	TC70-57000
Consistency (Penetration, worked, 60x)	320	340	250-350
Specific Gravity at 25°C	2.7	2.7	N/A
Bleed 24 Hrs., %/Weight at 200°C	0.1	0	0.5
Evaporation 24 Hrs., %/Weight at 200°C	0.6	1	1
Thermal Conductivity 36°C W/m °K	0.92	1.3	2.4
Electrical Properties			
Dielectric strength 0.05" gap, V/mil	305	265	N/A
Dielectric constant 25°C, 1,000 Hz	4.50	5.02	N/A
Dissipation factor 25°C, 1,000 Hz	0.0029	0.0022	N/A
Volume Resistivity Ohm-cm	1.65 x 10 ¹⁴	20.0 x 10 ¹⁴	< 0.01
Operating Temperature Range	-40°C to 200°C	-40°C to 180°C	-40°C to 200°C
Appearance	Smooth, Off-White Paste	Smooth, White Paste	Smooth Paste