



The **Silchem™** Group

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Tech Data Sheet

SM7704

Dielectric Silicone Compound

Silchem SM7704 is a silicon dioxide thickened high molecular weight dimethylpolysiloxane based material. It is a stiff, tacky dielectric compound with excellent water repellency. It was designed for use as a water repellent, sealing grease-like compound. It is high tack and chemically inactive making it an excellent choice for vacuum and sealing interfaces, protecting electrical components, such as connectors, meters and ignition systems. Silchem SM7704 is also an excellent lubricant for rubber and plastics of all types. The compound meets the requirements of 21 CFR 178.3570 of the FDA, Lubricants for Incidental Food Contact.

Product Data	
Typical Properties	
TEMPERATURE RANGE	-100°F to 500° F
PENETRATION (WORKED 60X)	200 TO 300
BLEED	Stable @ 500° F
EVAPORATION	< 1% @ 500° F
APPEARANCE (WHITE)	TRANSLUCENT PASTE
SPECIFIC GRAVITY	1.01-1.03
THERMAL CONDUCTIVITY	0.11
DIELECTRIC STRENGTH (50 MIL)	710 V/MIL
DIELECTRIC CONSTANT (100Hz)	2.99
DISSIPATION FACTOR (100Hz/1 kHz)	0.0001/0.0025
VOLUME RESISTIVITY (OHM-CM)	2.18 X10 ¹⁴

APPLICATIONS

Dielectric Compound

Cable Accessories in Utility Underground Systems

Rubber Lubrication

Vacuum Sealing

Water Resistant

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It is the user's responsibility to thoroughly test any proposed use of our products and independently conclude satisfactory performance in the application.

Likewise, if the application, product specifications or manner in which our products are used require government approval or clearance, it is the sole responsibility of the user to obtain such authorization.

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