



## Tech Data Sheet

## SM7704

### Dielectric and Lubricating 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 non-silicone 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

Physical Property	Method	Value
APPEARANCE (WHITE)		TRANSLUCENT PASTE
SPECIFIC GRAVITY		1.00-1.03
TEMPERATURE RANGE		-40°F to 400° F (-40°C to 204°C)
PENETRATION (Worked 60X)	ASTM D-217	230-270
BLEED (24 Hour @ 100°C)	ASTM D-1742	<0.1%
EVAPORATION (24 Hour @ 100°C)	FTM 321.3	<0.3%
DIELECTRIC STRENGTH (50 MIL)	ASTM D-149	750 V/MIL
DIELECTRIC CONSTANT (100Hz)	ASTM D-150	3.0
DISSIPATION FACTOR (100 kHz)	ASTM D-150	0.0001
VOLUME RESISTIVITY (OHM-CM)	ASTM D-257	2.1x10 <sup>17</sup>

Applications	Dielectric Compound
	Rubber Lubrication
	Vacuum Sealing
	Rubber and Plastic O-rings (non-silicone)
	Lubricant and sealant for plumbing applications
	Chemical Barrier/Corrosion Protection

Packaging Options	<a href="http://www.shop.silchemgroup.com">www.shop.silchemgroup.com</a>
-------------------	--

The information and data contained herein is believed to be accurate and reliable; however, it is the user's responsibility to determine suitability of use. Since the supplier cannot know all the uses, or the conditions of use to which these products may be exposed, no warranties concerning the fitness or suitability for a particular use or purpose are made. 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 sure authorization.

The supplier warrants only that its products will meet its specifications. There is no warranty of merchantability or fitness for use, nor any other express or implied warranty. The users exclusive remedy and the suppliers sole liability is limited to refund of the purchase price or replacement of any product shown to be otherwise than as warranted. The supplier will not be liable for incidental or consequential damages of any kind. Suggestions of uses should not be taken as inducements to infringe on any patent.