



Technical Data

SM7704

DIELECTRIC SILICONE COMPOUND UNDERGROUND ELECTRIC UTILITY APPLICATIONS

PRODUCT DESCRIPTION

SM7704 is a dielectric silicone lubricating compound designed and formulated to meet the requirements for underground utility applications involving the installation and assembly of medium and low voltage cable accessory splices and terminations meeting the industry requirements of IEEE 386-2006. These applications require **SM7704** to exhibit excellent dielectric characteristics, stability over a wide range of temperatures and be of a consistency that permits it to be easily applied to cables and cable accessories. **SM7704** exhibits no separation over time. It is packaged in clear tubes to ensure utilities can see the compound permitting the user to inspect for contamination and separation which are critical in utility underground power applications. **SM7704** is also useful as an electrical insulator, corrosion inhibitor and is moisture and water repellent. Other characteristics include low volatility and it's non corrosive.

APPLICATIONS	FEATURES	TYPICAL DATA	
Low Voltage Cable Splicing & Terminating Terminating of Medium Voltage Cables using Loadbreak & Deadbreak Elbows Medium Voltage Cable Splicing	Low Volatiles Excellent Dispersion Wide Temperature Range	Appearance Temperature	Translucent -100°F to 500° F
High Voltage Cable Splicing Moisture and Corrosion Protection Bolted Connections Meter sockets In-Air Switchgear Contacts	Non Corrosive Excellent Stability Does Not Separate	Penetration, Worked Bleed (1hr @ 200°C) Evaporation (1 hr) Specific Gravity Dielectric Strength @50 mil gap Volume Resistivity Dielectric Constant @100 Hz Dissipation Factor @ 100Hz	230 - 270 0.6% 1% max @ 200°C 1.00 - 1.03 500 Volts/Mil 2.18x10 ¹⁴ ohm-cm 2.99 0.0001

PACKAGING	CATALOG NUMBER
5 Gallon Plastic Pail (40 lbs., 18kg)	SM7704/5G
1 Gallon Plastic Pail (8 lbs., 3.6kg)	SM7704/1G
8oz Clear Tube w/Resealable Flip-top Cap (227 gm)	SM7704/8.0
5.3oz Clear Tube w/Resealable Flip-top Cap (150 gm)	SM7704/5.3
5gram Clear Mini-Tube	SM7704/5gm/mt
10oz Caulking Tube	SM7704/10oz/CT
14oz Cartridge	SM7704/14oz/C

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