

Technical Data Sheet

SPECTRUM 777

Dielectric Silicone Lubricant & Sealant

FEATURES

- Resistant to a wide range of chemicals; generally resistant to mineral oils, vegetable oils, air, dilute acids, alkaline, most aqueous solutions and moisture
- Serviceable consistency from -40 to 400°F (-40 to 204°C)
- Practically nonvolatile and odorless
- Resistant to a variety of organic and inorganic chemicals and oxidation
- Electrically insulating
- Excellent rubber lubrication with release and sealing properties

COMPOSITION

- Silicone oil
- Inorganic thickener
- Various additives

APPLICATIONS

- Rubber and plastic O-rings (non-silicone)
- Lubricant and sealing for distributor caps, brake calipers and fuel pumps.
- Sealant for gaskets, seals, vacuum and pressure systems, outdoor and marine applications; subject to washing and harsh environments
- High voltage and underground electrical connections
- Damping medium for dash pots in electrical equipment
- Chemical barrier coating
- Anti-stick and sealant for transformer gaskets and equipment
- Water softener and faucet valves
- Mold release where high temperature molds stick to dies and plates.

SHELF LIFE

Under normal conditions, the approximate shelf life of this product is 60 months.

DESCRIPTION

SPECTRUM 777 Dielectric Silicone Lubricant & Sealant is a tacky, tenacious silicone based grease designed to provide superior release and water washout property characteristics while maintaining the excellent **dielectric properties** inherent with silicone greases. It was designed as a lubricant for brake caliper slides and boosters as well as rubber O-rings and plastic parts. Is an excellent lubricant, preventing O-rings from drying, cracking and becoming brittle in harsh environments. Offers superior moisture barrier capabilities, with excellent dielectric properties.

TYPICAL PROPERTIES

The values reported on this sheet should not solely be used for preparing specifications on this product.

Property	Test Method	Typical Value
Color	Visual	Translucent Paste, homogeneous
Specific Gravity		1.03
Bleed, (100°C /24h)	FTM 321.3	0.00%
Evaporation, (100°C/24h)	FTM 321.3	0.36%
Evaporation, (100°C /24h)	CTM-1	0.45%
Penetration, mm/10	ASTM D 217	251
Dropping Point, (°C)	ASTM D2265	>300°C
Flash Point of Base Oil, (°C)	ASTM D92	>300°C
Copper Corrosion	ASTM D4048	1B
Dielectric constant, (100 kHz)	ASTM D 150	2.79
Dielectric Strength, 50 Mil Gap	ASTM D 149	762 V/mil
10 Mil Gap	ASTM D 149	1390 V/mil
Volume Resistivity (ohm-cm)	ASTM D 257	1.6x10 ¹⁷
Dissipation Factor (100 kHz)	ASTM D 150	0.000173
Water Washout	ASTM D 1264	1.10%
Temperature Range		-40 to 204°C

*CTM (Corporate Test Methods) correspond to standard ASTM tests in most instances. Copies are available upon request.

LIMITATIONS

Should not be applied to any surface to be painted or finished. Coatings may not adhere to the silicone-treated surfaces. If contaminated by a silicone coating, parts can be wiped or washed with solvent or detergent. Should not be applied to O-rings or other components made of silicone rubber because they can deteriorate the silicone rubber. Will also slightly swell natural butyl rubbers. Any rubber should be tested for excessive swell or shrink. Not intended for use with liquid oxygen or other strong oxidizing chemicals and should not be used in applications requiring LOX compatibility. This product is not tested, nor approved for medical or pharmaceutical uses.

PACKAGING

Available in 55 gallon drums (400 lbs.), 5 gallon pails (40 lbs.), 1 gallon pails (8 lbs.), pint jars (1 lbs.), 3, 5.3 & 8 oz. plastic tubes, and various cartridges.

Special packaging and private labeling available upon request.