



FISil SI 100 Dielectric Gel

FEATURES & BENEFITS

- 100% Solids / Solvent free
- Exceptionally fast cure
- Convenient 1:1 mix ratio
- No corrosive by-products
- Environmentally friendly
- Low shrinkage
- Virtually no exotherm

APPLICATIONS

- High voltage insulation
- Outdoor junction boxes
- Buried or exposed electrical connections
- PCB assemblies
- Cable splicing units

AVAILABILITY

- 55-Gallon Drums
- 5-Gallon Pails
- 600 ml Side-by-side cartridges

STORAGE / SHELF LIFE

SI100 may be stored in original, unopened containers at, or below, 75F for up to one (1) year.

DESCRIPTION

Star Technology FISil SI100 is a clear, general-purpose, silicone based protective gel for electrical / electronic enclosures, junction boxes and terminal blocks. Extremely hydrophobic, FISil SI100 provides an excellent water-tight seal in buried or outdoor applications.

TYPICAL PROPERTIES

Physical Property	Test Method	Performance Range
Appearance (mixed)	Visual	Clear liquid
Viscosity (Mixed)	Brookfield	850 —1000 cps
Specific Gravity		0.96—1.06
Worklife @ 25C		<15 minutes
Cure Time @ 25C		7 Days
Hardness	ASTM D 2240	45 Shore 00
Service Temperature		-40C to 205C (-40F to 400F)
Dielectric Constant	ASTM D150	2.10 @100 Hz 2.45 @100 kHz
Dissipation Factor	ASTM D 150	0.020 @100 Hz 0.0038 @100 kHz
Dielectric Strength	ASTM D149	450 v/mil

ADDITIONAL INFORMATION

- Refer to Technical Bulletins for additional mixing, curing and handling procedures.
- As with any platinum-catalyzed silicone gel, the cure may be inhibited. Always check compatibility. Refer to Technical Bulletin for information.
- Even when fully cured, silicone gels can be soft with a tacky surface; however, uncured liquid may indicate cure inhibition or improper mixing.
- Not recommended for surfaces that are to be painted.

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