



FISi/ SI9500

Thermal Encapsulant

FEATURES & BENEFITS

- >99% Solids / VOC free
- Exceptionally fast cure
- Convenient 1:1 mix ratio
- No corrosive by-products
- Environmentally friendly
- Low shrinkage
- Virtually no exotherm
- No post-cure required
- Perfect balance between weight and thermal conductivity

APPLICATIONS

- Batteries
- Outdoor junction boxes
- Semiconductor modules
- “Clam-shell” enclosures
- Cable splicing units
- Electronic potting

AVAILABILITY

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

STORAGE / SHELF LIFE

SI9500 may be stored in original, unopened containers at, or below, 75F for up to one (1) year.

DESCRIPTION

FISi/ SI9500 is a two-component, thermally conductive, silicone-based potting and encapsulating compound with good flowability, long work-life, flexible cure schedule and moderate hardness.

TYPICAL PROPERTIES

Physical Property	Test Method	Performance Range
Appearance (mixed)	Visual	Pink liquid
Mix Ratio		1:1 By Volume (1:1 By Weight)
Viscosity (Mixed)	Brookfield	20,000-30,000 cps
Specific Gravity		2.50
Work-life @ 25C		15 -30 minutes
Cure Time @ 25C		3 Days
Shore Hardness	ASTM D 2240	30 Shore A
Service Temperature		-40C to 205C (-40F to 400F)
Thermal Conductivity	ASTM E 1530	2.0 W/m-K
Thermal Resistance	ASTM E 1530	24.3 x 10 ⁻⁴ K-m/W
Dielectric Constant	ASTM D150	4.95 @100 Hz 5.28 @ 100 kHz
Dissipation Factor	ASTM D 150	0.0377 @100Hz 0.0072 @100 kHz
Dielectric Strength	ASTM D149	350 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.
- Not recommended for surfaces that are to be painted.

To the best of our knowledge, the information provide herein is accurate. However, Star Technology, Inc. does not assume any liability for the accuracy or completeness of the information contained herein. Final determination of the suitability of any material is the sole responsibility of the user. The information contained herein is considered typical properties and is not intended to be used as specifications for our products. This information is offered solely to assist purchaser in selecting the appropriate products for purchaser’s own testing. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein and in the Safety Data Sheet, we cannot guarantee that these are the only hazards that exist.