



FISi/ SI 290 Low Viscosity

FEATURES & BENEFITS

- 100% Solids / Solvent free
- Exceptionally heat fast cure
- Convenient 1:1 mix ratio
- No corrosive by-products
- Environmentally friendly
- Low shrinkage
- Virtually no exotherm
- No post-cure required
- Lowest viscosity and long worklife

APPLICATIONS

- Automotive ECUs
- Outdoor junction boxes
- Semiconductor modules
- Complex constructions
- Cable splicing units
- Electronic potting

AVAILABILITY

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

STORAGE / SHELF LIFE

SI290 may be stored in original, unopened containers at, or below, 75F for up to one (1) year.

DESCRIPTION

FISi/ SI290 is the lowest viscosity, silicone-based potting and encapsulating compound offered from Star Technology. With excellent flowability and long work-life, SI290 is ideal for applications where component complexity requires more time for entrapped air to be released without vacuum de-airing.

Typical Properties

Physical Property	Test Method	Performance Range
Appearance (mixed)	Visual	Charcoal liquid
Mix Ratio		1:1 By Volume (1:1 By Weight)
Viscosity (Mixed)	Brookfield	850 cps
Specific Gravity		1.20
Worklife @ 25C		>2 Hours
Cure Time @ 25C		@150°C < 5 mins @100°C <20 mins @25°C Overnight
Shore Hardness	ASTM D 2240	30-40 Shore A
Service Temperature		-40C to 205C (-40F to 400F)
Thermal Conductivity	ASTM E 1530	0.25 W/m-K
Dielectric Constant	ASTM D150	@100 Hz @ 100 kHz
Dissipation Factor	ASTM D 150	0.008 @100 Hz 0.0037 @ 100kHz
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.

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