

# SI8706

## Silicone Gel Sealant

Premium Quality & Ultimate Service

# Two Component Dielectric Insulation Liquid Silicone Gel SI8706

### ■ Technical Data Table

PROPERTY	STANDARD/UNITS	VALUE of SI8706	
		PART A	PART B
----	----	PART A	PART B
Material	----	Polysiloxane	Hydrogen polysiloxane
Color	Visual inspection	Colorless Liquid	Colorless Liquid
Viscosity	25°C, cps	1100	1200
Density	25°C, g/cm <sup>3</sup>	0.99	0.99
Mixture/mass ratio	----	A:B=100:100	
Viscosity of mixture	25°C, cps	1100	
Operation time	25°C, min	10~15	
Fixture Time	25°C, min	70	
Cure condition	RTV	25°C, 30-60mins or 80°C, 10mins	
Cured appearance	----	transparent gel	
Penetration	1/10mm	65	
Dielectric strength	KV/mm	25	
Volume resistance	DC500V, ohm-cm	1.0×10 <sup>15</sup>	
Loss factor	1 MHz	< 0.001	
Dielectric constant	1 MHz	2.8	
Application temperature	°C	-60~260	

Note: All above data were tested under standardized condition, or tested by further experiments.

### ■ Typical Applications

- Used for encapsulation of various modules, semi-conductor, IGBT, automotive ECU module, IC chip, weighing sensor, waterproof connector.

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### ■ Product Description

SI8706 is two-component transparent self-healing silicone gel, when cured it will become elastomer with buffer and self-recovery property. Used to isolate moisture and other noxious pollutant from contacting the circuit board, also used as dielectric of high voltage. The other usage is stress relief for protecting circuit and interconnect devices from high temperature and mechanical stress.

### ■ Key Features

1. 1:1 addition type, good adhesive strength and self-healing
2. High elongation, excellent flexibility for mechanical stress relieving
3. Low oil penetration after cured, good anti-poisoning property
4. Good dielectric in high temperature for high voltage protection
5. Excellent aging resistance and weatherability
6. Excellent waterproof, corrosion prevention, moisture proof and chemical media resistance

### ■ Packing Specification

- Part A—10 KG/Bucket
- Part B—10 KG/ Bucket.

### ■ Transport & Storage

- When stored at or below 25°C in the original unopened containers, this product has a usable life of 12 months from the date of production. Sampling test is necessary for products which exceed shelf life before taking use.

It's non-dangerous goods, can be transported as normal chemicals, CAUTION leakage during transport.

### ■ Directions for Use

1. Mix Part A and Part B by 1:1 mass ratio, after evenly mixed, pouring directly into the components or modules as per requirements.
  2. Still the potted component to let out the bubbles. It can be heat cured, about 10mins in 80°C. It needs about 30~60mins cured under room temperature.
- Vacuum defoaming can improve the performance of cured product.
  - Seal the remaining products tightly after use.
  - Low temperature will slow the curing speed; heat curing is recommended.
  - It's hard for SI8706 to cure if contact with sulfur, amine or Sn

### ■ Attention of operation

- Keep away from Children
- Avoid contact with eyes and skin. If contact with your skin, scrub first with soap water or alcohol, then rinse with water. If contact with your eyes, rinse with plenty of water, and seek medical treatment immediately.
- It is forbidden to build on the surface of the wet substrate.

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### ■ Safety Operation Data

MSDS isn't included here. Please read TDS, MSDS and label carefully before operation. You can get MSDS from MAXTECH or other distributors, or mail to service center [maxtech@shmaxtech.com](mailto:maxtech@shmaxtech.com)

### ■ Warranty and Liability

All product properties and application details based on information believe to be reliable and accurate. But you still need to test its property and safety before application. The advice we supply don't apply in any circumstances. MAXTECH don't make assurance of any other applications outside the specification until MAXTECH supply a special written guarantee. MAXTECH is only responsible to replace or refund if this product is defective within the warranty period stated above. MAXTECH makes it clear that will not be liable of any accidents.

**Special Notes:** All recommendations concerning our products, including transportation, storage, and handing are based on our current knowledge and experience under normal conditions. In practical application, results may differ because of materials and actual site conditions change, our company won't guarantee or bear any legal responsibility. In order to ensure the bonding effect and the compatibility of products and materials, it is recommended to do the compatibility test or consult MAXTECH Technical Services before proceeding with the full application.