

Two Component Silicone Gel

SI2715



■ Product Description

SI2715 is two-component transparent self-healing silicone gel, after cured it will become quite elastic material with buffer and self-recovery. 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 components 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

■ Typical Applications

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

■ Technical Data Table

PROPERTY	STANDARD/UNITS	VALUE of SI2715	
		PART A	PART B
----	----	PART A	PART B
Material	----	Polysiloxane	Hydrogen polysiloxane
Color	Visual inspection	Colorless Liquid	Colorless Liquid
Viscosity	25 °C, cps	800	700
Density	25 °C, g/cm ³	0.99	0.99
Mixture/mass ratio	----	A:B=100:100	
Viscosity of mixture	25 °C, cps	750	
Operation time	25 °C, min	60	
Fixture Time	25 °C, hour	5	
Cure condition	----	25 °C/24hour, 80 °C/30min	
Cured appearance	----	Transparent gel	

SI2715

Technical Data Sheet



Needle penetration	1/10 mm	75
Dielectric strength	KV/mm	25
Volume resistance	DC500V, ohm-cm	1.0×10^{15}
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.

■ 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 30mins in 80 °C. It needs about 4-5hours cured under room temperature. Require 24 hours to achieve surface without obvious oil layer.
 - 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 SI2715 to cure if contact with sulfur, amine or Sn

■ Packing and Storage

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

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.

■ Safety Operation Data

MSDS isn't included here. Please read TDS, MSDS and label carefully before operation. You can get MSDS from SEPNA or other distributors, or mail to service center sepna@sepna.cc, or call +86-400-882-1323.

■ 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 advices we supply don't apply in any circumstances. SEPNA don't make assurance of any other applications outside the specification until SEPNA supply a special written guarantee. SEPNA is only responsible to replace or refund if this product is defective within the warranty period stated above. SEPNA makes it clear that will not be liable of any accidents.