

TECHNICAL DATA SHEET

CGSEAL SI 255

Two part silicone potting compound

TDS No : CG-TDS-651, Date :Aug. 2023

CGSEAL SI 255 is a medium-viscosity two-component addition silicone potting compound with medium thermally conductive. It can be applied to the surface of PC, PP, ABS, PVC and other metal substrates.

Features :

- Room temperature or heat accelerated cure
- No substance is released during curing
- Flexible and stable from -40 °C to 200 °C after cured
- Excellent electrical properties with high impedance and high dielectric strength
- Excellent anti-sedimentation design, suitable for long-distance transportation and long-term

Technical parameters:

Item	Part A	Part B
Uncured	White	Grey
Viscosity (cps, 25°C)	1000~3000	1000~3000
Specific Gravity (g/cm ³)	1.20 Approx.	1.20 Approx.
Mixing Ratio by Weight	1 : 1	
Viscosity after Mixing (cps, 25°C)	1000~30000	
Working Time (min, 25°C)	20 – 30	
Potting Time (hr, 25°C)	40-60	
Cured		
Hardness (shore A)	30-40	
Thermal Conductivity [W/(m·K)]	≧ 0.6	ASTM D5470
Dielectric Strength (KV/mm)	≧ 18	
Dielectric Constant (1.0MHz)	2.4~3.0	
Volume Resistivity (Ω·cm)	≧ 1.0×10 ¹³	

Applications:

Suitable for general potting/encapsulant material of power supplies or other components where thermal release is anticipated.

Direction for use:

- Before mixing: Part A and Part B should be separately mixed well.
- Mix the Part A and Part B thoroughly in ratio of 1:1 by weight.
- Put the mixture under vacuum if it has many small voids.
- Pot the mixture into the applications as soon as possible before the potlife of the mixed material.
- It will cure at room temperature or heat curing. The higher the temperature, the faster the curing.

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Storage:

Store in a dry and cool place away from heat source or moisture. Store below 35 deg C.

Health & Safety:

Avoid prolonged contact with eyes or skin. In case of contact with eyes, flush with water for 15 minutes and seek medical attention immediately. In case of skin contact, wipe off and wash with soap and water. Use in well ventilated areas.

KEEP OUT OF REACH OF CHILDREN.

Transportation:

This product is non-flammable and non-explosive, which can be delivered by normal means of transportation.

Note:

The company's products are sold subject to the Company's standard terms and conditions of sale. Products are warranted against defective materials and workmanship. The company makes every effort to ensure that all the information, recommendations or the specifications provided by it are accurate and true. However as the company has no control over the conditions of use, it cannot accept any liability, either directly or indirectly regarding the usage of its products. Product specifications are subject to change without prior intimation to users as the products are being continuously upgraded.