

GLUDITEC SS2210

Two-Part Addition-Type Potting Silicone Rubber

GLUDITEC SS2210 is a two-part, addition-cure (platinum-catalyzed) potting silicone rubber engineered for reliable protection of sensitive electronic and electric assemblies. Unlike condensation-cure systems, SS2210 exhibits no shrinkage and no exotherm during cure, so it encapsulates components without inducing mechanical stress on delicate circuitry — a key requirement for PCB, power module and connector potting. It combines an unusually wide service range of -50°C to +200°C with strong dielectric performance, water and moisture resistance, making it a dependable potting compound for demanding electronic, power and automotive-electric applications.

FEATURES

- No shrinkage and no exotherm during cure — stress-free encapsulation of sensitive components.
- Wide service temperature range (-50 to +200°C).
- Good electrical insulation.
- Water and moisture-proof, non corrosive.
- UL94-V0 compliant

APPLICATIONS

- Potting protection of general electronic components, power modules and printed circuit boards — waterproofing and high-voltage resistance.
- Encapsulation of automotive electric parts and all kinds of electric products.

TYPICAL PROPERTIES (SS2210)

Specification writers: These values are not intended for use in preparing specifications. Please contact Gluditec sales representative prior to writing specifications on this product.

Before Curing

Property	Unit	Value
Appearance	/	Grey (Part A) / White (Part B)
Viscosity	cps	1,600 – 2,000 (Part A) / 1,400 – 1,800 (Part B)
Density	g/cm ³	1.60 ± 0.05 (Part A) / 1.60 ± 0.05 (Part B)

After Mixing

Property	Unit	Value
Mixing ratio (Part A : Part B)	/	1 : 1
Mixing viscosity	cps	1,500 – 1,900
Operation time	min	30 – 60
Curing time	h	8

After Curing

Property	Unit	Value
Hardness	Shore A	55 ± 5
Dielectric strength	kV/mm	15
Volume resistivity	Ω·cm	1.0×10 ¹⁴ Min
Dielectric constant	60 Hz	≤ 4.0
Thermal conductivity	W/m·K	0.7 ± 0.05

HOW TO USE

Measuring

Weigh Part A and Part B precisely; mixed weighing error between Part A and Part B should be less than 3%. Otherwise it will affect curing.

Mixing

Put Part B into the container holding Part A, then mix adequately; manual or mechanical agitation can be used.

Deaerating

Natural or vacuum deaerating can be used. Natural deaerating: set the mixed compound aside for 20–30 minutes. Vacuum deaerating: 5–10 minutes at a vacuum degree of 0.09 to 0.1 MPa.

Pouring

Encapsulate the defoamed compound into the parts to complete the pouring operation. Before potting, keep the surface of the parts and the mixing container clean and dry.

LIMITATIONS

This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

ATTENTIONS

Some materials — chemicals, curing agents, plasticizers — can inhibit cure of the gel material, including:

1. Organotin and other metal-organic compounds
2. Sulphur, polysulfide, polysulfone and others
3. Amine, polyester rubber and other ammoniac compounds
4. Phosphorus and other phosphorus-containing compounds
5. Acid materials (organic acid)
6. Some flux residues

Vulcanizing

Put the sealed product at room temperature and let it become hard naturally; complete curing at room temperature takes 6–8 hours. To speed up cure, a heat-cure method can be used: 60 minutes at 60°C, 30 minutes at 80°C, or 20 minutes at 120°C. Under room-temperature conditions the mixed compound's viscosity will increase gradually with time — roughly doubling within 40 to 60 minutes.

PACKAGE AND STORAGE

Package: 40 kg per set — Part A 20 kg + Part B 20 kg.
 Storage: store in a dry place for 12 months (room temperature).

WARRANTY INFORMATION — PLEASE READ CAREFULLY

The information contained herein is offered in good faith and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information should not be used as a substitute for the customer's own tests to ensure that Gluditec's products are safe, effective, and fully satisfactory for the intended use. Gluditec's sole warranty is that the product will meet Gluditec's sales specifications in effect at the time of shipment. The exclusive remedy for breach of such warranty is limited to refund of the purchase price or replacement of any product shown to be other than as warranted. Gluditec specifically disclaims any other express or implied warranty of fitness for a particular purpose or merchantability, unless Gluditec provides a specific, duly signed endorsement of fitness for use. Gluditec disclaims liability for incidental or consequential damages. Suggestions of use shall not be taken as inducements to infringe any patent.