

Beijing Sanchen Chemical Co., Ltd.

SC-1517

Single-component room temperature silicone cure rubber

I. Brief Introduction

Single-component room temperature silicon cure rubber (hereinafter referred to as “RTV-1 Silicon Rubber”) is a kind of dope or ointment plastic material packed with aluminium shield or plastic cask as well as a kind of fine agglutinant and sealant maded by metals and non-metals. Combined with the moisture in the air in the room temperature, it will produce interconnection and vulcanize into high performance elastomer.

The glue material may agglutinate well with metals, glass, ceramics and various materials, create the glue and seal to diversiform electric components and will not pollute the ambient environment in the places where it is used.

The cured SC-1517 Silicon Rubber may fully exert the excellent electric characteristics of the organic silicon and bear the capacity of anti-extension, anti-vibration and anti-impact as well as the outstanding weather-wearing, heat-resistant, cold-resistant, water-fast and fireproof characteristics.

II. Technical Performances

Uncured:

No	Item	Index	Remarks
1	Appearance	Semi-flowable paste; white	Eyeballing
2	Tack free time (min.)	5~10	Finger Touch

Cured:

No	Item	Index
1	Hardness (JIS A)	≥25-35
2	Specific gravity g/cm ³	1.78
3	Tensile Strength (Mpa)	≥2.04
4	Elongation (%)	≥200
5	Volume resistivity(Ω.cm)	2.5x10 ¹⁵
6	Dielectric strength (MV/m)	≥22
7	Dielectric constant 50Hz	3.5
8	Temperature Range°C	-60 ... +200
9	Thermal conductivity w/m.k	2.06

III. Usage

- (1) **Cementation:** With good cohesion to most materials, the product may be used for the elastic binder for metal-and-metal, metal-inorganic material without erosion to the cohered material and is the best binder used among the silicon rubbers, silicon and other materials, such as the cohesion of TV deflexion loop, waterproof and moistureproof cementation for the subaqueous devices and the elastic cementation of the instrument and apparatus, etc.
- (2) **Coating:** It is widely used for the coating of multifarious electric components, semi-conductor equipment, the industrial electric apparatus and equipment for insulation, moistureproof, shockproof and protection.
- (3) **Sealing:** It may be used as the gap-filling material, for example for filling the apertures of the apparatus cabin and cabin, etc.