



# SA-257

## Silicone Sealant

### Features

- SA-257 is a neutral, single component silicone rubber adhesive. Cured at room temperature. Working temperature range is -60°C to 200°C after cured.
- Excellent electrical insulating properties and chemical stability, with water-resistance, ozone resistance and good weather resistance.
- Outstanding adhesion to general metals and most substrates.
- Not corrosive to most materials.

### Applications

Ideal for electrical and electronic components for applications like fixture, insulation, sealing, shock/vibration resistance, waterproof and encapsulation.

### Typical Specifications

|                     |   |                               |
|---------------------|---|-------------------------------|
| Color               | : | Translucent                   |
| Viscosity           | : | @25°C<br>Liquid               |
| Tack-free time      | : | @25°C<br>15 - 30 Mins         |
| Hardness            | : | Fully Cured<br>Shore A 22     |
| Tensile Strength    | : | 1.2 Mpa                       |
| Elongation          | : | 130%                          |
| Dielectric Constant | : | @1MHz<br>2.8                  |
| Dissipation Factor  | : | @1MHz<br>0.005                |
| Volume Resistivity  | : | 5.0 x 10 <sup>14</sup> ohm-cm |
| Dielectric Strength | : | 18 kV/mm                      |
| Shelf Life          | : | @25°C, Unopened<br>6 Months   |
| Package             | : | 300G/Cartridge                |

※The curing speed is related to the temperature and humidity in air. The higher the temperature and the humidity are, the faster the curing is.

|                               |   |
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## **Notes**

1. SA-257 exhibits outstanding adhesion to most substrates. Preprocess and clean the surfaces which will be bonded beforehand to ensure the best performances and results.
2. For the best result, please always apply a thin film (<3mm) first and repeat the same operation after the thin film previously applied is surface cured. When the application is sealing or bonding, please allow the parts applied with SA-257 sit at room temperature for a period of time, which is to ensure some moisture is absorbed, and then press to bond. The parts will be ready for use after a period of about 24hrs, but to use the parts after 7 days will get the best result. For special applications, to let the parts dried in the shade, increasing moisture in air and increasing ambient temperatures will ensure stable curing.
3. After contacting with moisture in air, SA-257 will start curing from the surfaces to inner sections. The curing speed is related to the thickness of SA-257 applied, humidity in air and temperature. The thicker SA-257 applied or the lower the relative humidity is, the longer the curing will be. Hence, heat curing may be considered.
4. Please use up the material asap after opened; or, re-cap the cartridge immediately after each use and keep the remaining product tightly sealed and stored in dry places to avoid water contamination. Use in well-ventilated areas is recommended.