

AS-RTV-TC

Product Description

AS-RTV-TC is a thermally conductive silicone RTV adhesive rubber developed for heat sink applications. AS-RTV-TC is a 1-Part silicone that when applied to the substrate enables adhesion to parts and heat transfer of the bonded assembly within minutes. When cured, the elastomer resists weathering, ozone, moisture, UV and high temperatures. AS-RTV-TC works well in manual and automatic dispensing equipment.

Product Features

- Room temperature cure
- High thermal conductivity
- Thixotropic paste
- Excellent unprimed adhesion to plastic, metal and glass
- Non-corrosive oxime cure
- Temperature range -45 to 260C

Curing:

RTV stands for Room Temperature Vulcanization, which means to cure at room temperature. Typical utilization involves dispensing in open air and after exposure to ambient humidity, a room temperature cured rubber is formed.

Packaging

Available in standard 3 fl oz. tubes and 10.3 fl oz. caulkers. Other size packaging available upon request.

Shelf-life:

In sealed containers, 1 years when stored in a cool dry area.

Method of Application

Dispense sealant onto part. Mate parts, and be sure not to squeeze all of the product out of flange assembly. Allow to cure.

Service Temperature

-45 to 260°C

Thermally Conductive Silicone Adhesive Sealant

Typical Properties

UNCURED

*Color:	Gray
Viscosity, cps	600,000
Specific Gravity	1.62
Consistency	Thixotropic paste
Working time, mins. @ R.T.	8
Tack Free Time, mins. @ R.T.	20
Application Rate, 90 psi g/min.	250
Solids, %	98
VOC, %	1.437
*(custom colors available upon request)	

CURED – ROOM TEMPERATURE

Cured	72 hrs. @ R.T.
Tensile Strength, PSI	250
Elongation, %	250
Durometer, Shore A	40
Thermal Conductivity, W/m/K	0.63
Coefficient of Thermal Expansion, cm/cm °C	17 x 10 ⁻⁵
Dielectric Strength, KV/mm	23
Dielectric Constant	3.3
Dissipation Factor @ 1kHz	0.007
Volume resistivity, Ohm/cm	1.8 x 10 ¹⁵

Typical Applications

- PC board heat sink
- Electronic component heat transfer
- Adhesive sealing of components
- Part fixturing with heat dissipation capability
- Power unit adhesive

Limitations

Allow sealant to fully cure before putting assembly into service. Ensure enough product remains between flanges to be effective in an assembly.

Handling and Safety

For maximum shelf life, keep containers sealed when not in use. Keep out of the reach of children. Uncured sealant irritates eyes and skin. Refer to SDS.

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