

SILICONE SOLUTIONS

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SS-3941

Product Description

SS-3941 is a thermally conductive silicone RTV adhesive rubber developed for heat sink applications. SS-3941 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. SS-3941 works well in manual and automatic dispensing equipment.

Product Features

- ◆ Fast R.T. cure
- ◆ High thermal conductivity
- ◆ Thixotropic paste
- ◆ Excellent unprimed adhesion to plastic, metal and glass
- ◆ Non-corrosive oxime cure
- ◆ Temperature range -45 to 260C

Color: White

Typical Applications

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

Thermally Conductive Silicone Adhesive Sealant

Typical Properties

UNCURED

Viscosity, cps	600,000
Specific Gravity	1.65
Consistency :	thixotropic paste
Tack Free Time, mins. @ R.T.:	5
Application Rate, 90 PSI, g/min. 3mm orifice@ 0.6 MPa	250

CURED - R.T.

Cured -72 Hrs. @ R.T.	
Tensile Strength, PSI	400
Elongation, %	150
Tear Strength, PPI	20
Durometer, Shore A	25
Thermal Conductivity W / m °K	0.83
Coefficient of Thermal Expansion cm/cm °C	17x10 ⁻⁵
Dielectric Strength Kv/mm	22
Dielectric Constant, 60Hz	4.0
Dissipation Factor, 60Hz	0.040
Volume Resistivity Ohm-cm	4 x 10 ¹⁴

Method of Application

Dispense sealant onto part. Mate parts, ensuring that not all of the product is squeezed out of flange assembly. Allow to cure.

Chemical cure system

Oxime cure system

Packaging

SS-3941 is available in 3 oz. tubes, 10.3 oz. cartridges and 50 lb. pails. This product is also available in customer defined packaging sizes upon request.

Curing

Room temperature cures are completed within minutes exhibiting outstanding adhesion.

Solids

98% solids, contains no solvents

Adhesion

Primerless adhesion to most plastics, metals and glass

Service temperature

-45 to 260C

Limitations

Do not use product on head gaskets or in fuel immersion applications. Allow 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 MSDS.

Shelf-life

Sealed containers are guaranteed for 1 year from the ship date when stored in a cool dry area below 70 F.

Limited warranty

All recommendations, statements and technical data herein are based on tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as warranty, either expressed or applied. User shall rely on his own information and tests to determine suitability of the product for the intended use, and the user assumes all risk and liability resulting from the use of this product. Manufacturer's sole responsibility shall be to replace that portion of product of the manufacturer proves to be defective. Manufacturer shall not be liable to the buyer or any third party for injury, loss or damage directly or indirectly resulting from the use of, or inability to use, the product. Recommendations or statements other than those contained in a written agreement signed by an officer of the manufacturer shall not be binding by the manufacturer.

This product has not been tested for, and is therefore not recommended for, uses for which prolonged contact with mucous membranes, abraded skin, or blood is intended; or for uses which implantation within the human body is intended.

**** Customized versions available upon request ****