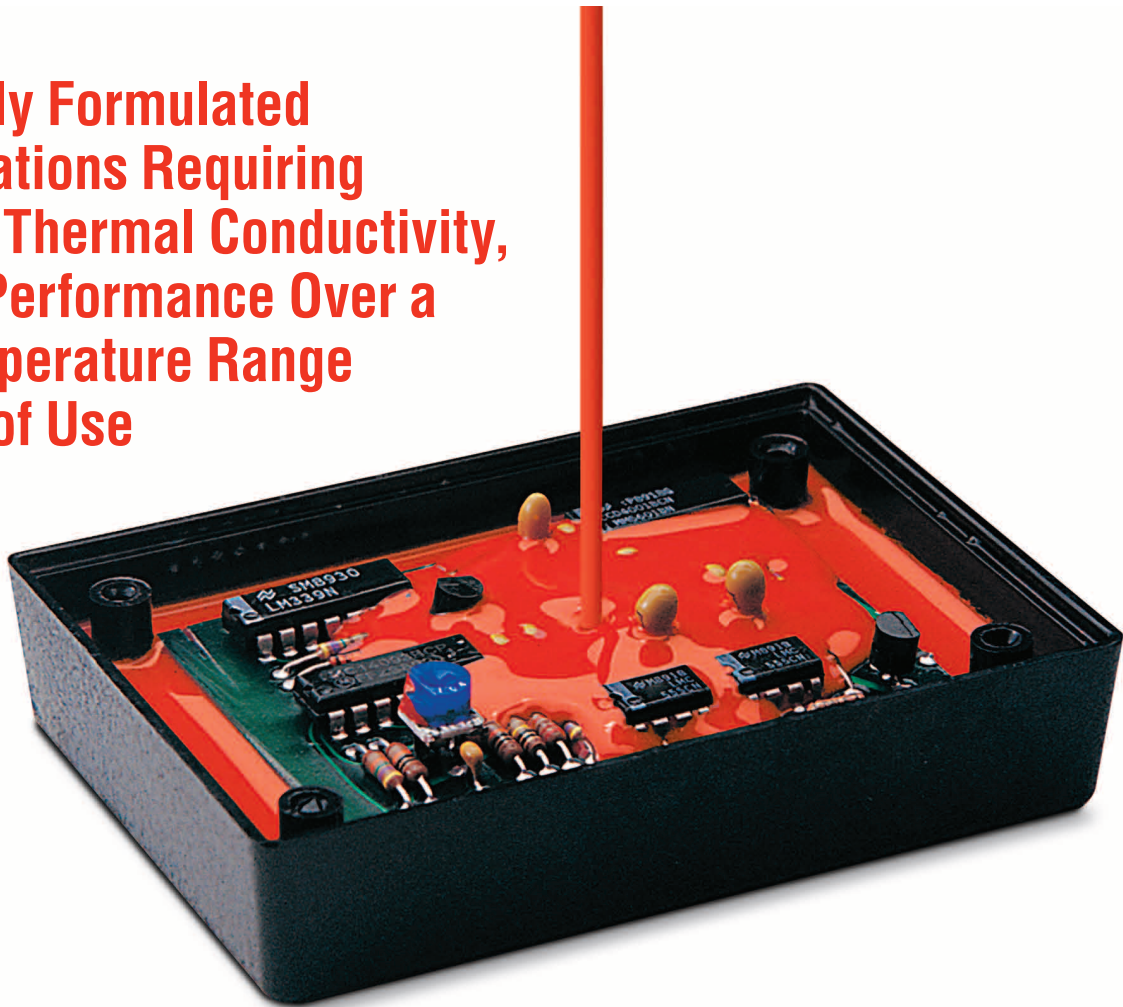


INSULCAST RTVS 3-95-2

Highly Thermally Conductive RTV Silicone Compound

**Specifically Formulated
for Applications Requiring
Very High Thermal Conductivity,
Superior Performance Over a
Wide Temperature Range
and Ease of Use**



Key Product Benefits

- Very High Thermal Conductivity
- High Temperature Capability
- Meets the Requirements of UL 94V-0
- Convenient 1:1 Mix Ratio
- Good Flowability
- Low CTE

For samples, technical advice or a distributor near you call:
800.645.7546 or 215.855.8450. www.insulcast.com

INSULCAST[®]
ENCAPSULANTS, POTTING MATERIALS & SILICONE GREASES

RTV Silicone Potting Compound

Technical Bulletin # 3133

Product Description

INSULCAST RTVS 3-95-2 is a very highly thermally conductive, high temperature RTV silicone compound which meets the flammability requirements of UL 94V-0.

Properties Uncured

	Part A	Part B	
COLOR, VISUAL:	Red	Neutral	
VISCOSITY @ 25°C, cps:	35000	35000	ASTM D 2393
SPECIFIC GRAVITY:	2.36	2.27	
MIX RATIO (by weight or volume):		1:1	
MIXED VISCOSITY, cps:	35000		ASTM D 2393
Gel Time, 25°C, hours		2-4	
POT LIFE @25°C, hours		1.5	
SHELF LIFE @25°C, months:		12	

Properties Cured

PHYSICAL			
HARDNESS, DUROMETER (Shore A):	85		ASTM D 2240
TENSILE STRENGTH, psi:	400		ASTM D 412
TENSILE ELONGATION, %:	17		ASTM D 412
TEAR STRENGTH, Die B lb/in :	5		ASTM D 624
COEFFICIENT OF THERMAL EXPANSION, °C:	15.0 x 10 ⁻⁵		
THERMAL CONDUCTIVITY, BTU-in/(ft ²)(hr)(°F):	15		
THERMAL CONDUCTIVITY, BTU-ft/(ft ²)(hr)(°F):	1.25		
THERMAL CONDUCTIVITY, W/m °K:	2.16		
CAL-CM/(CM ²)(SEC)(°C):	0.005		
SERVICE TEMPERATURE, °C:	-55 to 260		

Electrical

DIELECTRIC STRENGTH, volts/mil:	500		ASTM D 149
DIELECTRIC CONSTANT, 1 KHz:	5.0		ASTM D 150
DISSIPATION FACTOR, 1 KHz:	0.01		ASTM D 150
VOLUME RESISTIVITY, @ 125 °C ohm-cm:	1 x 10 ¹³		ASTM D 257
VOLUME RESISTIVITY, @ 25 °C, ohm-cm:	1 x 10 ¹⁴		ASTM D 257

Use Instructions

1. Pre-mix the Part A & Part B in their original containers.
2. Measure 100 parts of Part B for each 100 parts of Part A.
3. Blend A and B together thoroughly.
4. To ensure void-free castings, evacuate at 29" Hg for 3-4 minutes.
5. Pour into unit or mold.

Cure Schedule

24 hours @25°C,
OR 2-4 hours at 65°C,
OR 1 hour at 90°C,
OR 15 minutes at 125°C.

Storage Requirements

This product may settle upon shipment or storage. The product should be re-mixed well prior to use. Store material in a cool dry place.

Special Notes

Certain materials may inhibit the cure of RTVS 3-95-2 when placed in contact with the mixed, uncured rubber. Materials such as amines and amine cured epoxies, sulfur containing materials and condensation (tin cured) silicones, are some which may cause inhibition. Even surfaces which have been in contact with such materials may cause it. If in doubt, a patch test should be done.

Date 03/2011

IMPORTANT:

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HEALTH CAUTION:

Avoid breathing possible fumes, mists and vapors which can cause severe respiratory damage. Use of NIOSH approved breathing apparatus is required for more than minimal exposure. Always work in areas with adequate ventilation to allow dissipation of polyamine and other chemical fumes, and where applicable, solvent fumes. Use of goggles, protective garments, rubber gloves, protective cream is required. If material gets into eyes, flush thoroughly with clean water for twenty (20) minutes; then seek medical treatment. Avoid skin contact. Material can cause contact dermatitis. Always wash exposed areas immediately, using warm water and soap, followed by rinsing with clean water. Observe all safety precautions. It is important when using solvent based materials or solvents to keep away from open flame or ignition source.

PLEASE REFER TO MATERIAL SAFETY DATA SHEET FOR FURTHER FIRST AID INFORMATION. FOR CHEMICAL EMERGENCY, CALL CHEMTREC (DAY OR NIGHT) 800 424-9300.