

RTV Silicones

RTV Silicones by  **2-Part Potting/Encapsulating Compound**
RTV31



Technical Support
for RTV Silicones

 1-800-255-8886










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Primary Characteristics

- ▶ [Red pourable](#)
- ▶ [Condensation cure](#)
- ▶ [Extreme high temp](#)
- ▶ [Useful to 260°C \(500°F\)](#)
- ▶ [Primer required](#)

Use for:

- ▶ Potting surge protectors on telephone poles
- ▶ Potting industrial filters
- ▶ High temp. electrical potting applications
- ▶ Mechanical protection

silicone rubber compound for electrical potting and mechanical applications for high temperature resistance and low viscosity with variable work times and cure rates. Elastomeric properties range from -54°C to 260°C continuously, to 316°C for short periods. Requires [primer](#) for adhesion. The product comes complete with catalyst DBT. [Specialized catalysts](#) are available upon request.

Available Sizes

Catalog Number	Sizes Available	Description
RTV31-1P	1 pint	pail
RTV31-1G	1 gallon	pail
RTV31-5G	5 gallon	pail
RTV31 requires a primer. Visit our primer guide for details.		

Specifications

Use	Potting & Encapsulating
Special Feature	High Temperature
NSN	8030-00-11-2762
Cross Reference	RTV31
Uncured Properties	
Consistency	Flowable
Color	Red
Specific Gravity	1.42
Pot Life	2 hours
Cure Through Time	24 hours
Useful Temp. Range	-54°C to 260°C (-65°F to 500°F)
Cured Properties - MECHANICAL	
Hardness	54 (Shore A)
Tensile Strength	5.98 MPa (870 psi)
Elongation	170%
Cured Properties - ELECTRICAL	
Volume Resistivity	1.6 x 10 ¹⁴ ohm · cm
Dielectric Strength	17 kV/mm (430 V/mil)
Dielectric Constant	4.4 @ 1000Hz
Cured Properties - THERMAL	

Thermal Conductivity	0.31 W/m · °K
Thermal Expansion	20 x 10 ⁻⁵ cm/cm °C (11 x 10 ⁻⁵ in/in °F)
Other	
Viscosity (@ 25°C)	25,000 cps
Mix ratio (by weight)	100:0.5

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