

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	










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Related products:

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-  [RTV31](#)
-  [RTV60](#)
-  [RTV88](#)
-  [RTV560](#)
-  [RTV566](#)
-  [RTV577](#)
-  [RTV630](#)
-  [RTV656](#)

Resources

- ▶ [Selection Guide >](#)
- ▶ [One Part Chart !\[\]\(196c08192bc1688b986c9d181e52f15b_img.jpg\)](#)
- ▶ [Two Part Chart !\[\]\(482227aca45a878648135de358239c03_img.jpg\)](#)

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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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