

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



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 <u>primer guide</u> 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	
<u>Hardness</u>	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	
<u>Viscosity</u> (@ 25°C)	25,000 cps
Mix ratio (by weight)	100:0.5