

# Caulkcrete® 100 Ceramic Cement

## Ideal for Use in Lamps, Appliances, Heaters, Furnaces, Resistors and Elements



CAULKCRETE 100 ceramic cement is an excellent, ready-to-mix self-curing ceramic adhesive with superior electrical insulation properties.

CAULKCRETE 100 ceramic cement is a white, odorless powder that, when mixed with water, delivers outstanding bonding characteristics and is ideally suited to applications that demand superior electrical insulation properties.

Benefits of CAULKCRETE 100 ceramic cement include:

- Excellent bonding to glass, quartz, porcelain and metal.
- Resists thermal shock and ultra-high temperatures.
- Provides optimum dielectric strength.
- Insulates.

## Typical Material Properties\*

Color	White	
Screen Analysis	90%<325 Mesh	
Coefficient of Thermal Expansion	5.6X10 <sup>-6</sup> in/in/°F	
Compression Strength	4500–5500 psi	
Thermal Conductivity	10 BTU/ft <sup>2</sup> /hr/°F/IN	
Maximum Service Temperature	3000 °F (1648 °C)	
Volume Resistivity	at 70 °F (21 °C)	10 <sup>11</sup> ohm-cm
	at 750 °F(300 °C)	10 <sup>10</sup> ohm-cm
	at 1475 °F (800 °C)	10 <sup>9</sup> ohm-cm
Dielectric Strength	at 70 °F (21 °C)	77 to 103.5 volts/mil
	at 750 °F(300 °C)	24 to 39.5 volts/mil
	at 1475 °F (800 °C)	13.5 to 24 volts/mil
Chemical Resistance	Exhibits resistance to acids or alkalis. Very oil resistant.	

\*These results are based on the testing methods, frequency and procedures of Ransom & Randolph or its approved suppliers. The levels referenced herein are only for general guidance and do not constitute a firm specification.

## Safety

Avoid direct contact with skin and eyes. We recommend that eye protection and rubber gloves be worn when working with this product. Refer to the Material Safety Data Sheet (MSDS) for full safety details.

# PRODUCT DATA SHEET



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