

## Grade: ARMC-645N

**Manufacturer:**

Aremco Products, Inc.

**Description:**

Silica based castable ceramic with low thermal conductivity. Supplied in powder form and mixed with water to develop a strong hydraulic bond. Requires curing (see item description).

PROPERTY	US VALUE	METRIC VALUE
Major Constituent	<b>Silica</b>	
Maximum Temperature	<b>3000</b> °F	<b>1649</b> °C
CTE	<b>5.5</b> in/in °F x 10 <sup>-6</sup>	<b>9.9</b> Microns/m °C
Volume Resistivity	<b>10<sup>9</sup></b> ohm-cm @ RT	
Dielectric Strength	<b>300</b> volts/mil	ac-kv/mm
Compressive Strength	<b>7000</b> psi	<b>48.3</b> MPa
Porosity	<b>&lt; 5.0</b> % VOL	% VOL
Moisture Resistance	<b>Excellent</b>	
Alkali Resistance	<b>Good</b>	
Acid Resistance	<b>Good (attacked by HF)</b>	
No. Components	<b>1 + H<sub>2</sub>O</b>	
Mixed Viscosity	<b>10,000</b> @ 25°C, cps	
Shrinkage	<b>&lt; 0.3</b> % @ 1000°F	
Pot Life	<b>1-2</b> 100gm @ 25°C, hours	
Shelf Life	<b>12</b> months	
Color	<b>Off White</b>	