

Grade: ARMC-646

Manufacturer: Aremco Products, Inc.

Description: Zirconia Silicate based castable ceramic with high thermal dielectric and physical strength. 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	Zirconia Silicate			
Maximum Temperature	3000	°F	1649	°C
CTE	3.1	in/in °F x 10 ⁻⁶	9.9	Microns/m °C
Volume Resistivity	10⁹	ohm-cm @ RT		
Dielectric Strength	250	volts/mil		ac-kv/mm
Compressive Strength	11,500	psi	NaN	MPa
Porosity	6.0	% VOL		% VOL
Moisture Resistance	Excellent			
Alkali Resistance	Good			
Acid Resistance	Good (attacked by HF)			
No. Components	1 + H₂O			
Mixed Viscosity	9,000	@ 25°C, cps		
Shrinkage	<1.5	% @ 1000°F		
Pot Life	2-3	100gm @ 25°C, hours		
Shelf Life	12	months		
Color	Off White			