

Grade: ARMC-586

Manufacturer: Aremco Products, Inc.

Description: Zirconia/Magnesia based castable ceramic for ceramic and metal assemblies. Excellent handling, fast curing (see item description). Supplied in powder form and mixed with water to develop a strong hydraulic bond.

PROPERTY	US VALUE		METRIC VALUE	
Major Constituent	Zirconia/Magnesia			
Maximum Temperature	2800	°F	1538	°C
CTE	2.7	in/in °F x 10 ⁻⁶	4.9	Microns/m °C
Volume Resistivity	10¹¹	ohm-cm @ RT		
Dielectric Strength	220	volts/mil		ac-kv/mm
Compressive Strength	8000	psi	55.2	MPa
Porosity	< 2.0	% VOL		% VOL
Moisture Resistance	Excellent			
Alkali Resistance	Good			
Acid Resistance	Good (attacked by HF)			
No. Components	1 + H₂O			
Mixed Viscosity	15,000	@ 25°C, cps		
Shrinkage	< 0.3	% @ 1000°F		
Pot Life	1-2	100gm @ 25°C, hours		
Shelf Life	12	months		
Color	Off White			