

Grade: ARMC-510

Manufacturer:

Aremco Products, Inc.

Description:

Alumina based, coarse grain castable material for producing large high temperature tooling. 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	Alumina	
Maximum Temperature	3200 °F	1760 °C
CTE	3.9 in/in °F x 10 ⁻⁶	7.0 Microns/m °C
Volume Resistivity	10 ⁹ ohm-cm @ RT	
Dielectric Strength	75 volts/mil	ac-kv/mm
Compressive Strength	8000 psi	55.2 MPa
Porosity	7.0 % VOL	% VOL
Moisture Resistance	Excellent	
Alkali Resistance	Good	
Acid Resistance	Good (attacked by HF)	
No. Components	1 + H ₂ O	
Mixed Viscosity	12,000 @ 25°C, cps	
Shrinkage	< 1.0 % @ 1000°F	
Pot Life	2-3 100gm @ 25°C, hours	
Shelf Life	12 months	
Color	Light Gray	