

Grade: ARMC-502-676

Manufacturer: Aremco Products, Inc.
Description: Full-fired, fine grain, high purity MgO ceramic. Inert to molten metals, slags, superconductors.

PROPERTY	US VALUE		METRIC VALUE	
Composition	Magnesium Oxide			
Maximum Temperature	3270	°F	1799	°C
Hardness, Moh's scale	5.5			
Specific Gravity	3.45	gms/cc		
Density	0.12	lb/in ³	3.32	gr/cm ³
Porosity	4.5	% VOL		% VOL
CTE	7.7	in/in °F x 10 ⁻⁶	13.9	Microns/m °C
Compressive Strength	120000	psi	827.4	MPa
Flexural Strength	35000	psi	241.3	MPa
Dielectric Strength	150	volts/mil		ac-kv/mm
Loss Factor at 1 MHz	-			
Dielectric Constant at 1 MHz	9.6			
Thermal Conductivity	15.0	BTU/(h.ft ² °F/ft)	2.2	W/(m ² . K/m)