

**Grade: ARMC-502-1400-BF**

**Manufacturer:** Aremco Products, Inc.  
**Description:** Good corrosion, electrical and thermal shock resistance.

PROPERTY	US VALUE		METRIC VALUE	
<b>Composition</b>	<b>96% Alumina</b>			
<b>Hardness, Moh's scale</b>	<b>1-2</b>			
<b>Specific Gravity</b>	<b>3.0</b>	gms/cc		
<b>Density</b>	<b>0.10</b>	lb/in <sup>3</sup>	<b>2.77</b>	gr/cm <sup>3</sup>
<b>Porosity</b>	<b>25</b>	% VOL		% VOL
<b>Thermal Expansion</b>	<b>3.5</b>	in/in/°F x 10 <sup>-6</sup>		
<b>Compressive Strength</b>	<b>9000</b>	psi	<b>62.1</b>	MPa
<b>Flexural Strength</b>	<b>4000</b>	psi	<b>27.6</b>	MPa
<b>Dielectric Strength</b>	<b>80</b>	volts/mil		ac-kv/mm
<b>Loss Factor at 1 MHz</b>	<b>.003</b>			
<b>Dielectric Constant at 1 MHz</b>	<b>5.5</b>			
<b>Thermal Conductivity</b>	<b>2.48</b>	BTU/(h.ft <sup>2</sup> °F/ft)	<b>4.30</b>	W/(m <sup>2</sup> . K/m)
<b>Maximum Temperature</b>	<b>2600</b>	°F	<b>1427</b>	°C