

**RESCOCAST 17EMC(XPR)**

*RESCOCAST 17EMC(XPR) IS A CORDIERITE BASED CASTABLE WITH A HIGH PURITY CALCIUM ALUMINATE BINDER. LOW IRON, LOW THERMAL CONDUCTIVITY, HIGH RESISTANCE TO THERMAL SHOCK AND EROSION ARE SOME OF THE UNIQUE PROPERTIES OF THIS PATENTED SYSTEM OF RAW MATERIALS. "XPR" OR RFT ADDITIVES ALLOW FOR EXCELLERATED HEAT UP RATES*

<b><u>MAXIMUM SERVICE TEMPERATURE (M.S.T.)</u></b>	1370 °C			
<b><u>MAXIMUM GRAIN SIZE</u></b>	5 mm			
<b><u>VOLUMETRIC YIELD (without losses)</u></b>	1840 kg/m <sup>3</sup>			
<b><u>THERMAL EXPANSION COEFFICIENT</u></b>	5.1 x 10 <sup>-6</sup> cm/cm/°C			
<b><u>APPARENT POROSITY</u></b>	35% @ 540 °C			
<b><u>TYPICAL MIXING WATER</u></b>	13.5 - 14.2 %			
<b><u>SHELF LIFE</u></b>	12 Months stored in ideal conditions in original packaging			
<b><u>PACKAGING</u></b>	20Kg Bags on Wooden Pallets Stretch Wrapped			
<b><u>BULK DENSITY</u></b>				
@ 110 °C	115 - 120	LBS/FT <sup>3</sup>	1842 - 1922	KG/M <sup>3</sup>
@ 815 °C	108 - 115	LBS/FT <sup>3</sup>	1730 - 1842	KG/M <sup>3</sup>
<b><u>COLD CRUSHING STRENGTH</u></b>				
@ 815 °C	5000 - 7000	P.S.I.	345 - 493	KG/CM <sup>2</sup>
<b><u>PERMANENT LINEAR CHANGE</u></b>				
@ 815 °C	- 0.10 TO - 0.30 %			
<b><u>EROSION LOSS (ASTM C-704)</u></b>	LESS THAN 20.0 CC			

**CONDUCTIVITY OR "K" FACTOR**

<b><u>MEAN TEMP</u></b>	<b><u>BTU/FT<sup>2</sup>/Hr/°F/in</u></b>	<b><u>W/mK</u></b>
@ 815 °C (1500 °F)	5.6	0.80

**TYPICAL CHEMICAL ANALYSIS (%)**

<b>AL<sub>2</sub>O<sub>3</sub></b>	<b>SiO<sub>2</sub></b>	<b>Fe<sub>2</sub>O<sub>3</sub></b>	<b>CaO/MgO</b>	<b>TiO<sub>2</sub></b>	<b>AlK</b>
<b>54.4</b>	<b>34.6</b>	<b>1.2</b>	<b>8.2</b>	<b>0.5</b>	<b>1.0</b>

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