

**RESCOCAST 17EMC**

*RESCOCAST 17EMC CASTING GRADE REFRACTORY HAS BEEN DEVELOPED FOR MAXIMUM FLOW UNDER VIBRATION WITH AN EXTENDED WORKING TIME. LOWER THERMAL CONDUCTIVITY, HIGHER RESISTANCE TO THERMAL SPALLING AND EROSION ARE SOME OF THE UNIQUE PROPERTIES OF THIS PATENTED SYSTEM OF RAW MATERIALS.*

**MAXIMUM SERVICE TEMPERATURE (M.S.T.)** (1370°C)

**BULK DENSITY**

@ 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>

**COLD CRUSHING STRENGTH**

@ 815°C	5000 - 7000	P.S.I.	350 - 500	KG/CM <sup>2</sup>
@ 1095°C	4200 - 6000	P.S.I.	295 - 420	KG/CM <sup>2</sup>

**COLD MODULUS OF RUPTURE**

@ 815°C	700 - 1000	P.S.I.	49 - 70	KG/CM <sup>2</sup>
@ 1095°C	600 - 850	P.S.I.	42 - 60	KG/CM <sup>2</sup>

**PERMANENT LINEAR CHANGE**

@ 815°C	- 0.1 TO - 0.3 %
@ 1095°C	-0.2 TO - 0.4 %

**EROSION LOSS (ASTM C-704)**

LESS THAN 20.0 CC

**CONDUCTIVITY OR "K" FACTOR**

<u>MEAN TEMP</u>	<u>BTU/FT<sup>2</sup>/Hr/°F/in</u>	<u>W/mK</u>
@ 540°C (1000°F)	5.0	0.71
@ 815°C (1500°F)	5.6	0.80
@ 1095°C (2000°F)	6.1	0.87

**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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