

## RESCOCAST 17MC

*RESCOCAST 17MC IS A HIGH TEMPERATURE, HIGH PURITY, MEDIUM CEMENT CASTABLE PROVIDING HIGH STRENGTH AND EROSION RESISTANCE THROUGHOUT IT'S ENTIRE TEMPERATURE RANGE. IT ALSO HAS EROSION-RESISTANT PROPERTIES EQUAL TO THOSE OF THE EXTREME SERVICE GROUP OF CASTABLES. GOOD PHYSICAL PROPERTIES AND EASE OF APPLICATION HAVE MADE IT A UNIVERSALLY USED PRODUCT THROUGHOUT ALL INDUSTRIES WHERE HIGH TEMPERATURE AND HIGH STRENGTH ARE REQUIREMENTS.*

**MAXIMUM SERVICE TEMPERATURE (M.S.T.)** 1600°c

**BULK DENSITY**

After 110°C	138 - 143	LBS/FT <sup>3</sup>	2210 - 2291	KG/M <sup>3</sup>
After 815°C	130 - 136	LBS/FT <sup>3</sup>	2082 - 2178	KG/M <sup>3</sup>

**COLD CRUSHING STRENGTH**

After 110°C	8000 - 12000	P.S.I.	517 - 700	KG/CM <sup>2</sup>
After 815°C	6500 - 8500	P.S.I.	455 - 600	KG/CM <sup>2</sup>
After 1510°C	7000 - 10000	P.S.I.	490 - 700	KG/CM <sup>2</sup>

**COLD MODULUS OF RUPTURE**

After 815°C	800 - 1200	P.S.I.	85 - 105	KG/CM <sup>2</sup>
After 1510°C	700 - 1100	P.S.I.	120 - 140	KG/CM <sup>2</sup>

**PERMANENT LINEAR CHANGE**

110°C to 815°C	0.0 TO - 0.3 %
110°C to 1370°C	- 0.5 TO - 1.0 %
110°C to 1510°C	- 0.7 TO - 1.4 %

**EROSION LOSS ASTM C-704** LESS THAN 15.0 CC

**CONDUCTIVITY OR "K" FACTOR**

	<u>BTU/ft<sup>2</sup>/Hr/°F/in</u>	<u>W/mK</u>
@ 540°C	6.50	0.94
@ 815°C	6.95	1.00
@ 1095°C	7.35	1.06

**TYPICAL CHEMICAL ANALYSIS (%)**

AL <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	CaO	MgO	Alk	TiO <sub>2</sub>
52.0	41.9	1.1	3.2	0.1	0.6	1.0

The properties shown on this data sheet represent typical average results generated using standard ASTM test methods (unless otherwise noted) conducted under controlled conditions and should not be considered to be guaranteed specifications. Properties are subject to normal manufacturing statistical standard deviation ranges, and Resco Products, Inc. reserves the right to modify the properties and specifications at any time without prior notice. RESCO PRODUCTS disclaims any expressed or implied warranties based on this sheet. 01/08/13 is the date that this data sheet was updated. Check with your RESCO sales representative or RESCO website to determine you have the current sheet