

RESCOCAST 17

RESCOCAST 17 IS A HIGH TEMPERATURE, HIGH PURITY CASTABLE PROVIDING HIGH STENGTH 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.) 1650°c

BULK DENSITY

@ 110°C	138 - 143	LBS/FT ³	2210 - 2291	KG/M ³
@ 815°C	130 - 136	LBS/FT ³	2082 - 2178	KG/M ³

COLD CRUSHING STRENGTH

@ 110°C	8000 - 12000	P.S.I.	517 - 700	KG/CM ²
@ 815°C	6500 - 8500	P.S.I.	455 - 600	KG/CM ²
@ 1370°C	7000 - 10000	P.S.I.	490 - 700	KG/CM ²
@ 1510°C	7000 - 10000	P.S.I.	490 - 700	KG/CM ²

COLD MODULUS OF RUPTURE

@ 815°C	800 - 1200	P.S.I.	85 - 105	KG/CM ²
@ 1370°C	800 - 1200	P.S.I.	105 - 125	KG/CM ²
@ 1510°C	700 - 1100	P.S.I.	120 - 140	KG/CM ²

PERMANENT LINEAR CHANGE

@ 1095°C	0.00 TO - 0.50 %
@ 1370°C	- 0.50 TO - 1.00 %
@ 1510°C	- 0.70 TO - 1.40 %

EROSION LOSS ASTM C-704 LESS THAN 15.0 CC

CONDUCTIVITY OR "K" FACTOR

	<u>BTU/ft²/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 ₂ O ₃	SiO ₂	Fe ₂ O ₃	CaO	MgO	Alk	TiO ₂
53.2	40.2	0.7	4.3	0.2	0.2	1.2

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