

RESCOCAST 17A(HP)

RESCOCAST 17A(HP) IS A HIGH TEMPERATURE, HIGH PURITY CASTABLE WITH LOW IRON AND LOW SILICA CONTENTS DESIGNED FOR INSTALLATION BY HANDPACKING. ITS ALUMINA CONTENT OF 94 PERCENT GIVES THE PRODUCT A MAXIMUM SERVICE TEMPERATURE OF 1870°C.

MAXIMUM SERVICE TEMPERATURE (M.S.T.) (1870°C)

BULK DENSITY

@ 110°C	170 - 180	LBS/FT ³	2723 - 2883	KG/M ³
@ 815°C	165 - 175	LBS/FT ³	2643 - 2803	KG/M ³

COLD CRUSHING STRENGTH

@ 540°C	5000 - 8000	P.S.I.	350 - 560	KG/CM ²
@ 815°C	5000 - 8000	P.S.I.	560 - 560	KG/CM ²
@ 1510°C	7000 - 10000	P.S.I.	490 - 700	KG/CM ²

COLD MODULUS OF RUPTURE

@ 540°C	800 - 1400	P.S.I.	60 - 105	KG/CM ²
@ 815°C	1000 - 1400	P.S.I.	70 - 105	KG/CM ²
@ 1510°C	1300 - 2000	P.S.I.	90 - 140	KG/CM ²

PERMANENT LINEAR CHANGE

@ 815°C	- 0.10 TO - 0.60 %
@ 1095°C	- 0.50 TO - 0.70 %
@ 1510°C	- 0.90 TO - 1.50 %

EROSION LOSS (ASTM C-704) LESS THAN 15.0 CC

CONDUCTIVITY OR "K" FACTOR

<u>MEAN TEMP</u>	<u>W/mK</u>
@ 540°C	1.56
@ 815°C	1.41
@ 1095°C	1.40

TYPICAL CHEMICAL ANALYSIS (%)

AL ₂ O ₃	SiO ₂	Fe ₂ O ₃	CaO	MgO	AlK
94.0	0.1	0.1	5.2	0.1	0.2

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