RESCOCAST 1870LIG

RESCOCAST 1870LIG IS A VERY HIGH PURITY, LOW IRON, LOW SILICA HYDRAULIC SETTING CASTABLE FOR HIGH TEMPERATURE APPLICATIONS. LOW IRON AND LOW SILICA CONTENTS OF LESS THAN 0.1 TO 0.2 PERCENT MAKES RESCOCAST 1870LIG AN IDEAL CHOICE FOR REDUCING ATMOSPHERES SUCH AS HYDROGEN AND / OR CARBON MONOXIDE.DATA SHOWN ARE AVERAGE RESULTS OF TESTS FOLLOWING THE GUIDELINES SET FORTH IN ASTM C-903-70 "PREPARING REFRACTORY SPECIMENS BY COLD GUNNING".

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

BULK DENSITY

@ 110°C	164 – 170	LBS/FT³	2626 – 2723	KG/M³
@ 815°C	159 – 165	LBS/FT³	2546 – 2643	KG/M³

COLD CRUSHING STRENGTH

@ 540°C	6000 – 10000	P.S.I.	414 – 690	KG/CM²
@ 815°C	6000 – 10000	P.S.I.	414 – 690	KG/CM²
@ 1510°C	7000 – 12000	P.S.I.	483 – 828	KG/CM²

COLD MODULUS OF RUPTURE

@ 540°C	800 – 1400	P.S.I.	60 – 105	KG/CM²
@ 815°C	1000 – 1400	P.S.I.	70 – 105	KG/CM²
@ 1510°C	1300 – 2000	P.S.I.	90 – 140	KG/CM²

PERMANENT LINEAR CHANGE

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

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

CONDUCTIVITY OR "K" FACTOR

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

TYPICAL CHEMICAL ANALYSIS (%)

Al_2O_3	SiO_2	Fe_2O_3	CaO	MgO	AlK
93.9	0.1	0.1	5.6	0.1	0.2