

## 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/FT <sup>3</sup>	2626 - 2723	KG/M <sup>3</sup>
@ 815°C	159 - 165	LBS/FT <sup>3</sup>	2546 - 2643	KG/M <sup>3</sup>

COLD CRUSHING STRENGTH

@ 540°C	6000 - 10000	P.S.I.	414 - 690	KG/CM <sup>2</sup>
@ 815°C	6000 - 10000	P.S.I.	414 - 690	KG/CM <sup>2</sup>
@ 1510°C	7000 - 12000	P.S.I.	483 - 828	KG/CM <sup>2</sup>

COLD MODULUS OF RUPTURE

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

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

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

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
93.9	0.1	0.1	5.6	0.1	0.2

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