

### **GENERAL DUTY CASTABLES**

PRODUCT DATA

# **RESCOCAST 1850LIG**

RESCOCAST 1850LIG IS A HIGH TEMPERATURE, HIGH PURITY CASTABLE WITH LOW IRON AND LOW SILICA CONTENTS.. ALUMINA CONTENT OF 93 PERCENT GIVES THE PRODUCT A MAXIMUM SERVICE TEMPERATURE OF 1850°C. DATA SHOWN ARE AVERAGE RESULTS OF TESTS FOLLOWING THE GUIDELINES SET FORTH IN ASTM C-903-70 "PREPARING REFRACTORY CONCRETE SPECIMENS BY COLD GUNNING".

### MAXIMUM SERVICE TEMPERATURE (M.S.T.) (1850°C)

### **BULK DENSITY**

@ 815°C	165 - 175	LBS/FT <sup>3</sup>		2643 - 2803	KG/M <sup>3</sup>			
COLD CRUSHING STRENGTH								
2								
	5000 - 8000	P.S.I.		560 - 560	KG/CM <sup>2</sup>			
COLD MODULUS OF RUPTURE								
@ 815°C	1000 - 1400	P.S.I.		70 - 105	KG/CM <sup>2</sup>			
PERMANENT LINEAR CHANGE								
@ 815°C			- 0.0 TO - 0.3	%				
@ 1095°C	- 0.5 TO - 0.7 %							
@ 1510°C		- 0.9 TO - 1.5 %						
CONDUCTIVITY OR "K" FACTOR								
<u>MEAN TE</u>	EMP	BTU/FT <sup>2</sup> /H	<u>lr/°F/in</u>	<u>W/</u>	mK			
@ 540°C		16.8		2.44				
@ 815°C		16.5	2.39					
@ 1095°C		16.7		2.	42			
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	TiO2
93.0	0.3	0.08	5.7	0.14	0.3

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



## **RESCOCAST 1850LIG**

RESCOCAST 1850LIG GUNNING GRADE MATERIAL HAS BEEN CAST IN THE LABORATORY AS A MEANS OF TESTING AND CONTROLLING THE QUALITY OF THE PRODUCT. IT IS NOT RECOMMENDED THAT THE MATERIAL BE APPLIED IN THE FIELD BY CASTING APPLICATION METHODS. THE RESULTS SHOWN BELOW ARE TYPICAL OF <u>LABORATORY CAST SPECIMENS ONLY</u>.

### **BULK DENSITY**

@ 815°C 175 LBS/FT<sup>3</sup> 2800 KG/M<sup>3</sup> (max)

### **COLD CRUSHING STRENGTH**

@ 815°C 7000 P.S.I. 490 KG/CM<sup>2</sup> (mim)

### PERMANENT LINEAR CHANGE

Green to 110°C	-0.0	to - 0.1%
110°C to 815°C	-0.0	to - 0.3%