

RESCOCAST 9LI

RESCOCAST 9LI COMBINES THE QUALITIES OF AN INSULATING AND GENERAL DUTY CASTABLE. GOOD PROTECTION AGAINST HEAT LOSS AND HIGH STRENGTH HAVE MADE THIS PRODUCT AN IDEAL CHOICE FOR THE GUNNING OF REGENERATOR AND REACTOR WALLS. RESCOCAST 9LI HAS BEEN USED THROUGHOUT THE WORLD FOR THIS AND OTHER CRITICAL APPLICATIONS.

MAXIMUM SERVICE TEMPERATURE (M.S.T.) (1427°C)

BULK DENSITY

After 110°C	93 - 100	LBS/FT ³	1490 - 1602	KG/M ³
After 815°C	86 - 93	LBS/FT ³	1377 - 1490	KG/M ³

COLD CRUSHING STRENGTH

After 815°C	600 - 1000	P.S.I.	42 - 70	KG/CM ²
After 1095°C	800 - 1000	P.S.I.	56 - 70	KG/CM ²
After M.S.T.	1000 - 1400	P.S.I.	70 - 98	KG/CM ²

COLD MODULUS OF RUPTURE

After 815°C	150 - 300	P.S.I.	10 - 21	KG/CM ²
After 1095°C	200 - 300	P.S.I.	14 - 21	KG/CM ²
After M.S.T.	300 - 500	P.S.I.	21 - 35	KG/CM ²

PERMANENT LINEAR CHANGE

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

CONDUCTIVITY OR "K" FACTOR

<u>MEAN TEMP</u>	<u>BTU/FT²/HR/°F/IN</u>	<u>W/mK</u>
@ 260°C (500°F)	3.8	0.55
@ 540°C (1000°F)	3.3	0.48
@ 815°C (1500°F)	3.6	0.52

TYPICAL CHEMICAL ANALYSIS (%)

Al₂O₃	SiO₂	Fe₂O₃	CaO	MgO	TiO₂	ALK
43.1	47.1	0.8	6.0	0.26	0.9	1.1

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 9LI

RESCOCAST 9LI CAN ALSO BE READILY APPLIED BY GUNITE APPLICATION. DATA SHOWN ARE AVERAGE RESULTS OF TESTS FOLLOWING THE GUIDE LINES SET FORTH IN ASTM C-903-70 "PREPARING REFRACTORY CONCRETE SPECIMEN'S BY COLD GUNNING".

MAXIMUM SERVICE TEMPERATURE (M.S.T.) (1427°C)

BULK DENSITY

After 815°C 90 - 100 LBS/FT³ 1440 - 1600 KG/M³

COLD CRUSHING STRENGTH

After 815°C 800 - 1200 P.S.I. 56 - 84 KG/CM²
After 1095°C 800 - 1200 P.S.I. 56 - 84 KG/CM²
After M.S.T. 1000 - 1400 P.S.I. 70 - 98 KG/CM²

COLD MODULUS OF RUPTURE

After 815°C 300 - 500 P.S.I. 21 - 35 KG/CM²
After 1095°C 250 - 350 P.S.I. 16 - 25 KG/CM²
After M.S.T. 300 - 500 P.S.I. 21 - 35 KG/CM²

PERMANENT LINEAR CHANGE

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

CONDUCTIVITY OR "K" FACTOR

<u>MEAN TEMP</u>	<u>BTU/FT²/HR/°F/IN</u>	<u>W/mK</u>
@ 260°C (500°F)	4.4	0.64
@ 540°C (1000°F)	3.9	0.57
@ 815°C (1500°F)	4.2	0.61

PACKAGING 25 KG BAGS

POROSITY 43 PERCENT @ 1000°F (540°C) (CAST)
40 PERCENT @ 1000°F (540°C) (GUNITED)

ASTM CLASS C-401 CLASSIFICATION "Q"