

RESCOCAST 15

RESCOCAST 15 IS A HYDRAULIC-SETTING, STANDARD TYPE CASTABLE WITH MODERATE RESISTANCE TO ABRASION AND THERMAL SHOCK. IT IS USED IN APPLICATIONS WHERE HIGH STRENGTH, MODERATE EROSION RESISTANCE AND MEDIUM INSULATING VALUES ARE REQUIRED.

MAXIMUM SERVICE TEMPERATURE (M.S.T.) (1395°C)

BULK DENSITY

@ 110°C	120 - 128	LBS/FT ³	1922 - 2050	KG/M ³
@ 815°C	114 - 122	LBS/FT ³	1826 - 1954	KG/M ³

COLD CRUSHING STRENGTH

@ 815°C	3000 - 5000	P.S.I.	210 - 350	KG/CM ²
@ 1370°C	3500 - 5000	P.S.I.	245 - 350	KG/CM ²

COLD MODULUS OF RUPTURE

@ 815°C	400 - 600	P.S.I.	28 - 42	KG/CM ²
@ 1370°C	500 - 700	P.S.I.	35 - 50	KG/CM ²

PERMANENT LINEAR CHANGE

@ 815°C	- 0.10 TO - 0.30 %
@ 1095°C	- 0.10 TO - 0.60 %
@ 1370°C	0.00 TO - 1.40 %

CONDUCTIVITY OR "K" FACTOR

<u>MEAN TEMP</u>	<u>BTU/FT²/Hr/°F/in</u>	<u>W/mK</u>
@ 540°C	4.0	0.58
@ 815°C	4.6	0.66
@ 1095°C	5.3	0.76

TYPICAL CHEMICAL ANALYSIS (%)

AL ₂ O ₃	SiO ₂	Fe ₂ O ₃	CaO	MgO	TiO ₂	AlK
36.4	44.1	6.1	10.0	0.4	2.0	1.0

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

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RESCOCAST 15 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". RESULTS WILL VARY SUBJECT TO NORMAL VARIATIONS IN MANUFACTURING, TESTING AND INSTALLATION PROCEDURES IN THE FIELD.

MAXIMUM SERVICE TEMPERATURE (M.S.T.)

(1370°C)

BULK DENSITY

@ 815°C	115 - 125	LBS/FT ³	1840 - 2000	KG/M ³
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COLD CRUSHING STRENGTH

@ 815°C	2500 - 4500	P.S.I.	175 - 315	KG/CM ²
@ 1370°C	3000 - 5000	P.S.I.	210 - 350	KG/CM ²

COLD MODULUS OF RUPTURE

@ 815°C	600 - 900	P.S.I.	42 - 63	KG/CM ²
@ 1370°C	800 - 1200	P.S.I.	56 - 84	KG/CM ²

PERMANENT LINEAR CHANGE

@ 1095°C	- 0.10	TO	- 0.60	%
@ 1370°C	- 0.30	TO	- 1.50	%

1.8044