

RESOCOCAST 3-20R

RESOCOCAST 3-20R IS AN INSULATING CASTABLE WITH AN OPERATING TEMPERATURE UPTO 1095°C, WITH A GOOD STRENGTH TO DENSITY RATIO. IT CAN BE USED AS AN INSULATING MATERIAL IN BI-WALL LININGS AND ALSO AS A SINGLE COMPONENT LINING, WHERE EROSION CONDITIONS ARE NOT TOO SEVERE. UNLIKE LOOSE FILL OR SOFT INSULATING BLOCK, RESOCOCAST 3-20R WILL NOT SETTLE OR DISINTEGRATE UNDER ADVERSE CONDITIONS.

MAXIMUM SERVICE TEMPERATURE (M.S.T.) (1095°C)

BULK DENSITY

@ 110°C	27 - 32	LBS/FT ³	432 - 512	KG/M ³
@ 815°C	25 - 29	LBS/FT ³	400 - 464	KG/M ³

COLD CRUSHING STRENGTH

@ 540°C	70 - 125	P.S.I.	5 - 9	KG/CM ²
@ 815°C	70 - 125	P.S.I.	5 - 9	KG/CM ²
@ 925°C	60 - 115	P.S.I.	4 - 8	KG/CM ²

PERMANENT LINEAR CHANGE

@ 540°C	- 0.50 TO - 1.00 %
@ 815°C	- 0.80 TO - 1.50 %

CONDUCTIVITY OR "K" FACTOR

<u>MEAN TEMP</u>	<u>BTU/FT²/HR/°F/IN</u>	<u>W/mK</u>
@ 260°C (500°F)	0.90	0.13
@ 540°C (1000°F)	0.90	0.13
@ 815°C (1500°F)	1.10	0.16

TYPICAL CHEMICAL ANALYSIS (%)

AL₂O₃	SiO₂	Fe₂O₃	CaO	MgO	TiO₂	ALK
23.8	39.7	9.0	15.3	4.1	2.3	2.3

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 3-20R

RESCOCAST 3-20R CAN ALSO BE READILY APPLIED BY GUNITE APPLICATION. DATA SHOWN ARE AVERAGE RESULTS OF TESTS FOLLOWING THE GUIDELINES SET FORTH IN ASTM C-930-70 "PREPARING REFRACTORY CONCRETE SPECIMENS BY COLD GUNNING".

MAXIMUM SERVICE TEMPERATURE (M.S.T.) (1095°C)

BULK DENSITY

@ 815°C	35 - 40	LBS/FT ³	560 - 640	KG/M ³
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COLD CRUSHING STRENGTH

@ 540°C	100 - 200	P.S.I.	7 - 14	KG/CM ²
@ 815°C	100 - 200	P.S.I.	7 - 14	KG/CM ²
@ 925°C	100 - 200	P.S.I.	7 - 14	KG/CM ²

PERMANENT LINEAR CHANGE

@ 540°C	- 0.50 TO - 1.00 %
@ 815°C	- 0.80 TO - 1.50 %

CONDUCTIVITY OR "K" FACTOR

<u>MEAN TEMP</u>	<u>BTU/FT²/HR/°F/IN</u>	<u>W/mK</u>
@ 260°C (500°F)	1.05	0.15
@ 540°C (1000°F)	1.15	0.16
@ 815°C (1500°F)	1.25	0.18