

RESOCOAST 6

RESOCOAST 6 IS A HIGH STRENGTH, SPECIAL MEDIUM-WEIGHT HEAT INSULATING CASTABLE DESIGNED PRIMARILY FOR USE IN THE PETROCHEMICAL INDUSTRY WHERE HIGHER STRENGTH AND TEMPERATURE REQUIREMENTS ARE NEEDED. RESOCOAST 6 CAN BE APPLIED BY GUNNING OR CASTING. (FOR PUMPCASTING USE RESOCOAST 6PC). CAST DATA:

MAXIMUM SERVICE TEMPERATURE (M.S.T.) (1320°C)

BULK DENSITY

After 110°C	76 - 83	LBS/FT ³	1217 - 1330	KG/M ³
After 815°C	71 - 78	LBS/FT ³	1137 - 1250	KG/M ³

COLD CRUSHING STRENGTH

After 815°C	1100 - 1800	P.S.I.	76 - 126	KG/CM ²
After 1095°C	1200 - 1600	P.S.I.	84 - 112	KG/CM ²
After M.S.T.	2400 - 2800	P.S.I.	168 - 196	KG/CM ²

COLD MODULUS OF RUPTURE

After 815°C	400 - 700	P.S.I.	28 - 48	KG/CM ²
After 1095°C	400 - 700	P.S.I.	28 - 48	KG/CM ²
After M.S.T.	700 - 900	P.S.I.	48 - 63	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 %
110°C to 1095°C	- 0.5 TO - 1.2 %
110°C to M.S.T.	- 1.0 TO - 1.8 %

CONDUCTIVITY OR "K" FACTOR

<u>MEAN TEMP</u>	<u>BTU/FT²/HR/°F/IN</u>	<u>W/mK</u>
@ 260°C (500°F)	2.7	0.39
@ 540°C (1000°F)	2.3	0.33
@ 815°C (1500°F)	2.6	0.38

TYPICAL CHEMICAL ANALYSIS (%)

AL ₂ O ₃	SiO ₂	Fe ₂ O ₃	CaO	MgO	TiO ₂	ALK
44.82	38.0	1.8	10.7	0.8	0.7	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 6

RESCOCAST 6 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.) (1320°C)

BULK DENSITY

After 815°C 75 - 85 LBS/FT³ 1200 - 1360 KG/M³

COLD CRUSHING STRENGTH

After 815°C 1500 - 1800 P.S.I. 105 - 126 KG/CM²
After 1095°C 1200 - 1600 P.S.I. 84 - 112 KG/CM²
After M.S.T. 2400 - 2800 P.S.I. 168 - 196 KG/CM²

COLD MODULUS OF RUPTURE

After 815°C 200 - 500 P.S.I. 14 - 35 KG/CM²
After 1095°C 200 - 500 P.S.I. 14 - 35 KG/CM²
After M.S.T. 700 - 900 P.S.I. 49 - 63 KG/CM²

PERMANENT LINEAR CHANGE

Green to 110°C 0.0 TO - 0.1 %
110°C to 815°C 0.0 TO - 0.3 %
110°C to 1095°C - 0.5 TO - 1.2 %
110°C to M.S.T. - 1.0 TO - 1.8 %

CONDUCTIVITY OR "K" FACTOR

<u>MEAN TEMP</u>	<u>BTU/FT²/HR/°F/IN</u>	<u>W/mK</u>
@ 260°C (500°F)	3.5	0.51
@ 540°C (1000°F)	3.0	0.44
@ 815°C (1500°F)	3.3	0.48

PACKAGING 25 KG BAGS

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