



# INSULATING CASTABLES

PRODUCT DATA

## RESCOCAST 7

RESCOCAST 7 IS THE ORIGINAL ONE-SHOT LINING MATERIAL USED IN REGENERATOR AND REACTOR VESSEL WALLS IN VARIOUS PETROCHEMICAL UNITS. GOOD EROSION RESISTANCE COMBINED WITH BETTER INSULATING QUALITIES AND AN ECONOMICAL COST MAKE RESCOCAST 7 AN IDEAL CHOICE FOR MANY APPLICATIONS. ALTHOUGH PRIMARILY USED IN GUNITE APPLICATIONS. RESCOCAST 7 CAN ALSO BE CAST OR TROWELLED INTO PLACE.

MAXIMUM SERVICE TEMPERATURE (M.S.T.) (1316°C)

BULK DENSITY

After 1500°F (815°C) 78 LBS/FT<sup>3</sup> (1248 KG/M<sup>3</sup>)

COLD CRUSHING STRENGTH

After 1500°F (815°C) 1500 - 2400 P.S.I. (105 - 168 KG/CM<sup>2</sup>)

COLD MODULUS OF RUPTURE

After 1500°F (815°C) 200 - 300 P.S.I. (14 - 21 KG/CM<sup>2</sup>)

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 1316°C -0.5 to - 1.2 %

APPARENT POROSITY 41 PERCENT @ 1000°F (540°C)

CONDUCTIVITY OR "K" FACTOR

MEAN TEMP	BTU/FT <sup>2</sup> /HR/°F/IN	W/mK
@ 260°C (500°F)	3.1	0.45
@ 540°C (1000°F)	2.6	0.38
@ 815°C (1500°F)	2.9	0.42

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	TiO <sub>2</sub>	ALK
37.2	35.4	7.3	14.6	1.0	2.0	1.73

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 7

RESCOCAST 7 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.) (1316°C)

## BULK DENSITY

After 815°C                      85 - 95              LBS/FT<sup>3</sup>                      1360 - 1520              KG/M<sup>3</sup>

## COLD CRUSHING STRENGTH

After 815°C                      2000 - 3000              P.S.I.                      140 - 210              KG/CM<sup>2</sup>

## COLD MODULUS OF RUPTURE

After 815°C                      400 - 800              P.S.I.                      28 - 56              KG/CM<sup>2</sup>

## 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 1316°C                      -0.5 to - 1.2 %

## CONDUCTIVITY OR "K" FACTOR

<u>MEAN TEMP</u>	<u>BTU/FT<sup>2</sup>/HR/°F/IN</u>	<u>W/mK</u>
@ 260°C (500°F)	3.7	0.54
@ 540°C (1000°F)	3.2	0.46
@ 815°C (1500°F)	3.5	0.51

PACKAGING                      25 KG BAGS

APPARENT POROSITY                      36 PERCENT @ 1000°F (540°C)