

RESCOCAST 4MI

RESCOCAST 4MI IS A MEDIUM IRON VERSION OF RESCOCAST 4LI. IT IS A 1400°C LIGHTWEIGHT INSULATING CASTABLE WITH GOOD STRENGTHS AND INSULATING VALUES. RESCOCAST 4MI CAN BE CAST OR GUNNED.

CAST DATA:

MAXIMUM SERVICE TEMPERATURE (M.S.T.) (1400°C)

BULK DENSITY

@ 110°C	75 - 82	LBS/FT ³	1200 - 1310	KG/M ³
@ 815°C	65 - 72	LBS/FT ³	1041 - 1153	KG/M ³

COLD CRUSHING STRENGTH

@ 815°C	500 - 750	P.S.I.	35 - 52	KG/CM ²
@ 1095°C	400 - 700	P.S.I.	28 - 49	KG/CM ²
@ M.S.T.	400 - 700	P.S.I.	28 - 49	KG/CM ²

COLD MODULUS OF RUPTURE

@ 815°C	150 - 300	P.S.I.	10 - 21	KG/CM ²
@ 1095°C	150 - 300	P.S.I.	10 - 21	KG/CM ²
@ M.S.T.	150 - 300	P.S.I.	10 - 21	KG/CM ²

PERMANENT LINEAR CHANGE

@ 815°C	0.00	TO	- 0.40 %
@ 1095°C	- 0.20	TO	- 0.50 %
@ M.S.T.	- 0.70	TO	- 1.50 %

CONDUCTIVITY OR "K" FACTOR

MEAN TEMP	BTU/FT ² /HR/°F/IN	W/mK
@ 260°C (500°F)	1.95	0.28
@ 540°C (1000°F)	2.20	0.31
@ 815°C (1500°F)	2.45	0.35
@ 1095°C (2000°F)	2.95	0.42

TYPICAL CHEMICAL ANALYSIS (%)

AL ₂ O ₃	SiO ₂	Fe ₂ O ₃	CaO	MgO	TiO ₂	ALK
47.3	37.8	1.3	11.4	0.3	1.4	0.3

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 4MI

GUNITED DATA

RESCOCAST 4MI CAN BE READILY APPLIED BY GUNITE APPLICATION. DATA SHOWN ARE THE AVERAGE RESULTS OF TESTS FOLLOWING THE GUIDELINES SET FORTH IN ASTM C-903-70 "PREPARING REFRACTORY CONCRETE SPECIMENS BY COLD GUNNING."

Maximum Service Temperature: (1400°C)

Bulk Density: 80-90 lbs/ft³ (1280-1440 kg/m³)

Cold Crushing Strength:

1500°F (815°C)	600-1000 psi (42-70 kg/cm ²)
2000°F (1095°C)	600-1000 psi (42-70 kg/cm ²)
2600°F (1427°C)	800-1200 psi (56-84 kg/cm ²)

Modulus Of Rupture:

1500°F (815°C)	200-400 psi (14-28 kg/cm ²)
2000°F (1095°C)	200-400 psi (14-28 kg/cm ²)
2600°F (1427°C)	200-400 psi (14-28 kg/cm ²)

Permanent Linear Change (%):

1500°F (815°C)	0.0 to -0.3
2000°F (1095°C)	-0.1 to -0.5
2600°F (1427°C)	-0.6 to -1.4

Porosity (%): 45

Conductivity or "K" Factor:

Mean Temp.	BTU/ft ² /Hr/°F/in	W/mK
500°F (260°C)	2.10	0.30
1000°F (540°C)	2.40	0.35
1500°F (815°C)	2.60	0.37