



EXTREME SERVICE CASTABLES

PRODUCT DATA

RESCOCAST 110G

RESCOCAST 110G GUNNING GRADE REFRACTORY COMBINES EXCEPTIONAL EROSION RESISTANCE WITH LOW THERMAL CONDUCTIVITY . SHOWN ARE AVERAGE RESULTS OF TESTS FOLLOWING THE GUIDELINES SET FORTH IN ASTM C-903-70 "PREPARING REFRACTORY CONCRETE SPECIMENS BY COLD GUNNING".

MAXIMUM SERVICE TEMPERATURE (M.S.T.) (1315°C)

BULK DENSITY

@ 110°C	113 - 120	LBS/FT ³	1810 - 1922	KG/M ³
@ 815°C	105 - 112	LBS/FT ³	1682 - 1794	KG/M ³

COLD CRUSHING STRENGTH

@ 815°C	5000 - 9000	P.S.I.	350 - 630	KG/CM ²
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COLD MODULUS OF RUPTURE

@ 815°C	800 - 1200	P.S.I.	56 - 84	KG/CM ²
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PERMANENT LINEAR CHANGE

Green to 110°C	0.0 to - 0.1 %
@ 815°C	0.0 to - 0.3 %

EROSION LOSS (ASTM C-704) **LESS THAN 14.0 CC**
(Typical 10-12cc)

TYPICAL CONDUCTIVITY OR "K" FACTOR

<u>MEAN TEMP</u>	<u>BTU/FT²/Hr/°F/in</u>	<u>W/mK</u>
@ 540°C	6.0	0.86
@ 815°C	6.5	0.93
@ 1095°C	7.0	1.00

TYPICAL CHEMICAL ANALYSIS (%)

AL₂O₃	SiO₂	Fe₂O₃	CaO	MgO	TiO₂	AlK
48.7	37.1	1.7	8.6	1.2	0.8	1.6

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 110G

RESCOCAST 110G GUNNING GRADE MATERIAL HAS BEEN CAST IN THE LABORATORY AS A MEANS OF TESTING AND CONTROLLING THE QUALITY OF THE PRODUCT. IT IS NOT RECOMMENDED THAT THE MATERIAL BE APPLIED IN THE FIELD BY CASTING APPLICATION METHODS. THE RESULTS SHOWN BELOW ARE TYPICAL OF LABORATORY CAST SPECIMENS ONLY.

BULK DENSITY

@ 110°C	115 - 120	LBS/FT ³	1842 - 1922	KG/M ³
@ 815°C	110 - 115	LBS/FT ³	1762 - 1842	KG/M ³

COLD CRUSHING STRENGTH

@ 815°C	7500 - 10000	P.S.I.	525 - 690	KG/CM ²
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COLD MODULUS OF RUPTURE

@ 815°C	1200 - 1500	P.S.I.	85 - 105	KG/CM ²
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PERMANENT LINEAR CHANGE

@ 815°C	- 0.1 TO - 0.3 %
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<u>EROSION LOSS ASTM C-704</u>	LESS THAN 12.0 CC
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