

PRODUCT DATA



Extreme Service Castables

Gunned Data

Brand Name: Rescocast 110G

Description: RESCOCAST 110G is a unique gunning grade refractory that has been formulated to have high strength and abrasion resistance, along with relatively low thermal conductivity. RESCOCAST 110G is the product of choice when both high performance and insulating value is desired in a single gunning mix. Data shown below are average results of tests following the guidelines set forth in ASTM C-903 "Preparing Refractory Concrete Specimens by Cold Gunning".

Maximum Service Temperature 2400°F (1315°C)
(Based on Gunned Samples)

Bulk Density (lb/ft³)
After 1500°F (815°C) 108 to 118 (1730-1890 kg/m³)

Cold Crushing Strength (lb/in²)
After 1500°F (815°C) 5000 to 9000 (350-630 kg/cm²)

Permanent Linear Change (%)
Green to fired: after firing to 1500°F (815°C) 0.0 to -0.4

Erosion Loss using ASTM C-704 Method
After 1500°F (815°C) 10 to 17 cc (Typical)

Thermal Conductivity or "K" Factor

Mean Temperature	BTU/ft ² /Hr/°F/in.	W/mK
500°F (540°C)	6.3	0.90
1000°F (540°C)	6.0	0.86
1500°F (540°C)	6.2	0.89

Typical Chemical Analysis (%)	Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	TiO ₂	CaO	MgO	Alkalies
	38.3	39.4	3.4	1.8	13.4	1.8	1.9

Standard Packaging: 55 lb bag; 72 bags per pallet (Bulk Packaging Available)

The properties shown on this data sheet represent typical average results generated using standard ASTM test methods (unless otherwise noted) conducted under controlled conditions (using standard rectangular shapes), 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.

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Cast Data

Brand Name: **Rescocast 110G**

RESCOCAST 110G gunning grade refractory has been cast in the laboratory as a means of testing and controlling the product. It is not recommended that the material be applied in the field by casting application methods. Test results shown below are for LABORATORY CAST SPECIMENS ONLY.

<u>Sample Preparation Method:</u>	<u>Cast</u>
<u>Bulk Density (pcf) Using API RP 936 Method</u> After 1500°F (815°C) :	115 pcf maximum
<u>Cold Crushing Strength (psi) using ASTM C-133 Method</u> After 1500°F (815°C) :	6000 psi (minimum)
<u>Permanent Linear Change (%) using API RP 936 Method</u> Cured to Dried :	0.0 to -0.1 %
Dried to Fired (to 1500°F) :	0.0 to -0.3 %
Cured to Fired (to 1500°F)	0.0 to -0.4 %
<u>Abrasion Resistance using ASTM C-704 Method</u> After 1500°F (815°C) :	14cc maximum

Cast samples of Rescocast 110G will meet the values for the listed properties when tested in accordance with the specified method(s). All tests and listed properties conform to the requirements of API Standard 936 (Third Edition, November 2008) and are based upon samples without metal reinforcing fibers unless noted.

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