



PRODUCT DATA

Brand Name: **MONO-GUN® 90**

Description: MONO-GUN® 90 is a hot or cold 90% alumina plastic gunning mix designed for extremely high temperatures up to 3300°F and unusually severe service conditions. It has been used for induction furnace linings and to repair high temperature boiler and incinerator linings.

Physical properties shown are average values of samples taken under controlled conditions
ASTM test methods used where applicable

Maximum Service Temperature: 3300°F (1816°C)

Dry Material Required per Cubic Foot : 148 - 153 lbs. (approximate)

Water Required for Predampening : 1 - 3%

<u>Bulk Density (pcf)</u>	<u>Gunning Data</u>	
After 220°F (104°C)	160 - 168	(2.56 - 2.69 g/cm ³)
After 2250°F (1232°C)	157 - 166	(2.51 - 2.66 g/cm ³)
After 2910°F (1600°C)	159 - 165	(2.55 - 2.64 g/cm ³)

<u>Modulus of Rupture (psi)</u>		
After 220°F (104°C)	150 - 200	(10.5 - 14 kg/cm ²)
After 2250°F (1232°C)	450 - 550	(31.5 - 38.5 kg/cm ²)
After 2910°F (1600°C)	800 - 900	(56 - 63 kg/cm ²)

<u>Permanent Linear Change (%)</u>		
After 1500°F (815°C)	-0.5 to -0.1	
After 2910°F (1600°C)	-0.4 to +0.2	

<u>Apparent Porosity (%)</u>		
After 1500°F (815°C)	24 - 28	
After 2910°F (1600°C)	26 - 28	

Typical Chemical Analysis (%)

(Calcined Basis)

Alumina (Al ₂ O ₃)	89.4
Silica (SiO ₂)	8.1
Iron Oxide (Fe ₂ O ₃)	0.5
Titania (TiO ₂)	0.6
Lime (CaO)	1.0
Magnesia (MgO)	0.1
Alkalis (Na ₂ O+K ₂ O)	0.3

Standard Packaging: 55 lb bag. 72 bags per pallet. Bulk packaging available.

Brand Code: 0987

The properties shown on this data sheet represent typical average results using standard ASTM test methods (unless otherwise noted) conducted under controlled condition (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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