



# PRODUCT DATA

**Brand Name:** PERMACAST™ FG RAM CAST

**Description:** PermaCast™FG is a low silica, volume stable, magnesia-chrome ramming mix highly resistant to basic slags. It is produced from fused magnesia-chrome grain and is recommended for a wide variety of high temperature applications which require excellent corrosion resistance. Product maintains its high strength throughout a wide temperature range. Product can also be cast.

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

**Typical Water Required for Mixing (by weight) :**  
Ram Casting ..... 3.5 - 4.75%

	Ram Cast Data	
<b>Bulk Density (pcf)</b>		
Dried at 300°F (150°C)	207	(3.31 g/cm <sup>3</sup> )
Fired to 3000°F (1650°C)	206	(3.29 g/cm <sup>3</sup> )
<b>Cold Crushing Strength (psi)</b>		
Dried at 300°F (150°C)	6000	(420 kg/cm <sup>2</sup> )
Fired to 3000°F (1650°C)	5000	(350 kg/cm <sup>2</sup> )
<b>Modulus of Rupture (psi)</b>		
After 2700°F (1480°C)	500	(35 kg/cm <sup>2</sup> )
<b>Permanent Linear Change (%)</b>		
After 3000°F (1650°C)	-0.1 to +0.1	

**Typical Chemical Analysis (%)**  
(Calcined Basis)

Magnesia (MgO) .....	55.0
Silica (SiO <sub>2</sub> ) .....	1.5
Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> ) .....	12.6
Alumina (Al <sub>2</sub> O <sub>3</sub> ) .....	6.8
Lime (CaO) .....	0.4
Chromic Oxide(Cr <sub>2</sub> O <sub>3</sub> ) .....	23.7

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

Brand Code: 1021

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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