



PRODUCT DATA

Brand Name: PERMACAST™ FG-HS

Description: PermaCast™ FG-HS is a 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 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) :

Ramming	2.50 - 3.25%
Vibration Casting	5.0 to 5.3%

Ram Cast Data

Bulk Density (pcf)

Dried at 300°F (150°C)	205	(3.28 g/cm ³)
Fired to 3000°F (1650°C)	202	(3.23 g/cm ³)

Cold Crushing Strength (psi)

Dried at 300°F (150°C)	8000	(560 kg/cm ²)
Fired to 3000°F (1650°C)	5500	(385 kg/cm ²)

Modulus of Rupture (psi)

After 2700°F (1480°C)	500	(35 kg/cm ²)
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Permanent Linear Change (%)

After 3000°F (1650°C)	0.0 to +0.2
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Typical Chemical Analysis (%)

(Calcined Basis)

Magnesia (MgO)	53.3
Silica (SiO ₂)	3.7
Iron Oxide (Fe ₂ O ₃)	12.5
Alumina (Al ₂ O ₃)	10.7
Lime (CaO)	0.4
Chromic Oxide(Cr ₂ O ₃)	19.4

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

Brand Code: 1018

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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8/19/19 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.