



Technical Data

PERMACAST™ FG-HS (Formerly BR-9376) MAGNESIA-CHROME RAM-CAST MIX

FEATURES	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 (ASTM procedures used where applicable)		<u>g/cm³</u>	<u>lb/ft³</u>
	Bulk Density:		
	Dried at 300°F/150°C	3.28	205
	Fired to 3000°F/1650°C	3.23	202
		<u>kg/cm²</u>	<u>lb/in²</u>
	Cold Crushing Strength:		
	Dried at 300°F/150°C	560	8000
	Fired to 3000°F/1650°C	385	5500
	Modulus of Rupture:		
	At 2700°F (1480°C)	35	500
	Linear Change, %:		
	After 3000°F/1650°C	0.0 to +0.2	
CHEMICAL ANALYSIS (Ignited)	MgO (by Diff.)	53.3%	
	SiO ₂	3.7	
	CaO	0.4	
	Al ₂ O ₃	10.7	
	Cr ₂ O ₃	19.4	
	Fe ₂ O ₃	12.5	
MIXING INSTRUCTIONS	Optimum water for ramming: 2½ - 3¼%		
	Optimum water for casting: 4 - 4½%		
PACKAGING	Standard 55 pound (25 kg) moisture-proof bags		

The properties shown on this data sheet represent typical average results generated 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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