



Technical Data

PERMANENTE® 165-AF RAM MIX (Formerly BR-9689)

FEATURES	A fine sized high MgO material intended for leveling ladle bottoms and for backfill behind working linings in ladles, AOD degassers and other steelmaking vessels. This mix can also be rammed or cast.		
PHYSICAL PROPERTIES (ASTM procedures used where applicable)		<u>g/cm³</u>	<u>lb/ft³</u>
	Bulk Density:		
	Dried at 300°F/150°C	2.91	182
	Fired to 3000°F/1650°C	2.91	182
		<u>kg/cm²</u>	<u>lb/in²</u>
	Cold Crushing Strength:		
	Dried at 300°F/150°C	470	6500
	Fired to 3000°F/1650°C	530	7500
	Linear Change, %:		
	After 3000°F/1650°C		-1.0
CHEMICAL ANALYSIS (Ignited)	MgO (by Diff.)	94.8%	
	SiO ₂	2.0	
	CaO	1.4	
	Al ₂ O ₃	0.9	
	Fe ₂ O ₃	0.9	
MIXING INSTRUCTIONS	Optimum water for ramming: 3.25% Optimum water for casting: 5.25%		
PACKAGING	Standard 55 pound (25 kg) moisture-proof bags		
	<p>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.</p> <p>RESCO PRODUCTS disclaims any express or implied warranties based on this sheet.</p> <p>02/05/08 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</p>		