



# Technical Data

## HOTZONE 85-SP PERICLASE-SPINEL BRICK, BURNED

**FEATURES** An 85% MgO burned brick composed of very high purity periclase and magnesium aluminate spinel designed for transition zones of rotary cement kilns. HOTZONE®85-SP contains no added chrome to complicate disposal problems. It has excellent resistance to spalling and chemical attack.

<b>PHYSICAL PROPERTIES (ASTM procedures used where applicable)</b>		<u>g/cm<sup>3</sup></u>	<u>lb/ft<sup>3</sup></u>
	Bulk Density:	2.91	182
	Apparent Porosity, %:	16.5	
		<u>kg/cm<sup>2</sup></u>	<u>lb/in<sup>2</sup></u>
	Modulus of Rupture:		
	At Room Temperature	55	750
At 2300°F (1260°C)	50	700	
Cold Crushing Strength:	280	4000	
Hot Load Failure @25 lb/in <sup>2</sup> :	>1815°C	>3300°F	

<b>CHEMICAL ANALYSIS (Ignited)</b>	MgO (Diff.)	88.2%
	SiO <sub>2</sub>	0.4
	CaO	0.8
	Al <sub>2</sub> O <sub>3</sub>	10.3
	Cr <sub>2</sub> O <sub>3</sub>	Trace
	Fe <sub>2</sub> O <sub>3</sub>	0.3

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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