



# PRODUCT DATA

**Brand Name:** R-MAX SF

**Description:** A self leveling, 92% alumina castable with maximum erosion resistance, that can installed using the products's self leveling characteristic or pumpcasting methods. This product should be used in areas subjected to severe abrasion. It is suggested that vibration should not be used during installation since it is a self leveling product.

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

**Maximum Service Temperature: 3400°F (1870°C)**

**Typical Water Required for Mixing (by weight) :**  
Self Leveling ..... 5.4%

	Self Leveling Data	
<b>Bulk Density (pcf)</b>		
After 220°F (105°C)	187	(2.99 g/cm <sup>3</sup> )
After 1500°F (815°C)	185	(2.96 g/cm <sup>3</sup> )
<b>Cold Crushing Strength (psi)</b>		
After 1500°F (815°C)	17000	(1190 kg/cm <sup>2</sup> )
<b>Modulus of Rupture (psi)</b>		
After 1500°F (815°C)	5000	(350 kg/cm <sup>2</sup> )
<b>Thermal Conductivity (K Factor)</b>	<u>BTU/ft<sup>2</sup>/hr./°F/inch</u>	<u>W/mK</u>
1000°F (538°C)	20.5	2.96
1500°F (815°C)	21.0	3.03
<b>Permanent Linear Change (%)</b>		
After 1500°F (815°C)	-0.3 to 0.0	
<b>Apparent Porosity (%)</b>		
After 1500°F (815°C)	13%	
<b>Abrasion Loss (using ASTM C-704 Method)</b>		
After 1500°F (815°C)	5 cc (max)	

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

Alumina (Al <sub>2</sub> O <sub>3</sub> ) .....	92.8
Silica (SiO <sub>2</sub> ) .....	5.4
Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> ) .....	0.1
Lime (CaO) .....	1.5
Alkalis (Na <sub>2</sub> O+K <sub>2</sub> O) .....	0.2

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

Brand Code: 1500

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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