



# 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.

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

**Typical Water Required for Mixing :**  
..... 5.6%

**Bulk Density (lb/ft<sup>3</sup>)**

After 220°F (105°C)	187	2,992 (kg/m <sup>3</sup> )
After 1500°F (815 °C)	185	2,960 (kg/m <sup>3</sup> )

**Cold Crushing Strength (lb/in<sup>2</sup>)**

After 1500°F (815°C)	14,000 to 20,000	980 to 1400 (kg/cm <sup>2</sup> )
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**Modulus of Rupture (lb/in<sup>2</sup>)**

After 1500°F (815°C)	4,000 to 6,000	280 to 420 (kg/cm <sup>2</sup> )
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**Porosity (%)** 13%

**Permanent Linear Change (%)**

After 1500°F (815 °C) 0.0 to -0.3

**Erosion Loss using ASTM C704 Method**

After 1500°F (816°C): 5.0 cc max

**Thermal Conductivity (K Factor)**

Mean Temperature:	BTU/ft <sup>2</sup> /Hr/°F/in.	W/mK
1000°F (540°C)	20.5	2.96
1500°F (815°C)	21.0	3.03

**Typical Chemical Analysis (%)**

Al <sub>2</sub> O <sub>3</sub> .....	92.8
SiO <sub>2</sub> .....	5.4
Fe <sub>2</sub> O <sub>3</sub> .....	0.1
CaO .....	1.5
Alkalies .....	0.2

**Standard Packaging:** 72 - 55 lb bags per pallet

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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