

# PRODUCT DATA



## Chem-Bonded Castables

### Product Data

**Brand Name:** Rescobond AA-22S

**Description:** Rescobond AA-22S is a chemically bonded, erosion resistant, single component refractory material used primarily in thin lining applications to protect against severe abrasion. To prepare for use, blend Rescobond AA-22S with water. Rescobond AA-22S is an air setting material. It can also be used to patch other refractory linings.

<b>Typical Water Content (%)</b>	5.0	
<b>Typical Mix Time (minutes)</b>	5	
<b>Recommended Service Temperature</b>	2600 °F	1427 °C
<b><u>Bulk Density (lb/ft<sup>3</sup>)</u></b>		
After 1500°F (815°C)	168 (typical)	(2688 kg/m <sup>3</sup> )
<b><u>Cold Crushing Strength (lb/in<sup>2</sup>)</u></b>		
After 1500°F (815°C)	16,000 to 25,000	(1120 to 1750 kg/cm <sup>2</sup> )
<b><u>Modulus of Rupture (lb/in<sup>2</sup>)</u></b>		
After 1500°F (815°C)	2200 to 2800	(154 to 196 kg/cm <sup>2</sup> )
<b><u>Permanent Linear Change (%)</u></b>		
Green to 1500°F (815°C)	0.0 to -0.4	
<b><u>Erosion Loss</u></b>		
After 1500°F (815°C)	3.4cc	(Maximum)
<b><u>Thermal Conductivity or "K" Factor</u></b>		
Mean Temperature	BTU/ft <sup>2</sup> /Hr/°F/in.	W/mK
500°F (260°C)	14.3	2.08
1000°F (540°C)	14.0	2.03
1500°F (815°C)	14.2	2.06

### **Typical Chemical Analysis (%)**

Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	CaO/MgO	Alkalies	P <sub>2</sub> O <sub>5</sub>	Other
73.6	12.9	1.0	4.8	0.1	4.4	3.2

### **Brand Code 0342, Shelf Life 18 Months**

The properties shown on this data sheet represent typical average results generated using standard ASTM test methods (unless otherwise noted) conducted under controlled conditions (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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