



# 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.

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

**Typical Water Required for Mixing (by weight) :**  
Casting ..... 5.0%

	Cast Data	
<b>Bulk Density (pcf)</b>		
After 1500°F (815°C)	168	(2.69 g/cm <sup>3</sup> )
<b>Cold Crushing Strength (psi)</b>		
After 1500°F (815°C)	20500	(1435 kg/cm <sup>2</sup> )
<b>Modulus of Rupture (psi)</b>		
After 1500°F (815°C)	2500	(175 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>
at 500°F (260°C)	14.3	2.08
at 1000°F (538°C)	14.0	2.03
at 1500°F (815°C)	14.2	2.06
<b>Permanent Linear Change (%)</b>		
Green to 1500°F (815°C)	-0.4 to 0.0	
<b>Abrasion Loss (using ASTM C-704 Method)</b>		
After 1500°F (815°C)	3.4 cc	
<b>Typical Chemical Analysis (%)</b>		
<b>(Calcined Basis)</b>		
Alumina (Al <sub>2</sub> O <sub>3</sub> ) .....	73.6	
Silica (SiO <sub>2</sub> ) .....	12.9	
Titania (TiO <sub>2</sub> ) .....	3.2	
Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> ) .....	1.0	
Lime + Magnesia (CaO+MgO) .....	4.8	
Alkalies (Na <sub>2</sub> O+K <sub>2</sub> O) .....	0.1	
Phosphorus Pentoxide (P <sub>2</sub> O <sub>5</sub> ) .....	4.4	

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

Brand Code: 0342

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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