



# Chem-Bonded Castables

## Cast Data

### RESCOBOND 90A

**RESCOBOND 90A** is a phosphate bonded, chemically setting refractory castable that is resistant to molten aluminum. After mixing with water, this product develops a quick set, and can be heated shortly after installation to provide a fast “back on line” capability for your furnace. The chemical bonding system provides adherence to existing refractory, making it an effective patching material. **RESCOBOND 90A** can be installed by vibration casting or hand-packing techniques.

<b><u>Typical Water Addition to Cast:</u></b>	5.5%
<b><u>Maximum Service Temperature:</u></b>	3200°F (1760°C)
<b><u>Bulk Density:</u></b> After 1500°F (815°C)	176 lb/ft <sup>3</sup> (2816 kg/m <sup>3</sup> )
<b><u>Cold Crushing Strength:</u></b> After 1500°F (815°C)	6000 psi (420 kg/cm <sup>2</sup> )
<b><u>Modulus of Rupture:</u></b> After 1500°F (815°C)	1800 psi (126 kg/cm <sup>2</sup> )
<b><u>Permanent Linear Change (%):</u></b> After 1500°F (815°C)	-0.1
After 2500°F (1370°C)	+0.1
After 2910°F (1600°C)	+0.2
<b><u>Erosion Loss:</u></b> Using ASTM C-704 Method After 1500°F (815°C)	8 cc (typical)

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

Al <sub>2</sub> O	SiO <sub>2</sub>	MgO+CaO	Alkalies	P <sub>2</sub> O <sub>5</sub>	Others
88.5	0.3	6.1	0.7	2.9	1.5

**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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