



# Chem-Bonded Castables

## Product Data

### RESCOBOND 90A

**RESCOBOND 90A** is a phosphate bonded, chemically setting refractory castable that is non-wetting to molten aluminum. When mixed with water, it develops a quick set, and can be heated shortly after installation to provide a fast “back on line” capability for your unit. In addition to its use as a primary lining, RESCOBOND 90A’s 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.

**Maximum Service Temperature:** 3200°F (1760°C)

#### Typical Properties

#### Bulk Density:

1500°F ( 815°C) 165 lb/ft<sup>3</sup> (2640 kg/m<sup>3</sup>)

#### Erosion Loss: ASTM C-704

230°F (110°C)	6.3 cc
1500°F (815°C)	6.8 cc
2700°F (1480°C)	6.8 cc

#### Cold Crushing Strength:

230°F (110°C)	10250 psi (717kg/cm <sup>2</sup> )
1500°F (815°C)	8200 psi (574 kg/cm <sup>2</sup> )
2700°F (1480°C)	11300 psi (791 kg/cm <sup>2</sup> )

#### Modulus of Rupture:

230°F ( 110°C)	2000 psi (140kg/cm <sup>2</sup> )
1500°F (815°C)	2600 psi (182 kg/cm <sup>2</sup> )
2700°F (1480°C)	2800 psi (196 kg/cm <sup>2</sup> )

#### Permanent Linear Change(%):

230°F ( 110°C)	-0.1
1500°F (815°C)	-0.4
2700°F (1480°C)	-0.9

#### Typical Chemical Analysis(%):

Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	MgO/CaO	Alkalies	P <sub>2</sub> O <sub>5</sub>
90.0	0.1	0.1	5.3	0.2	4.3

**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 conditions 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. RESCO PRODUCTS disclaims any expressed or implied warranties based on this sheet. 01/08/13 is the date that this data sheet was updated. Check with your RESCO sales representative or RESCO website to determine you have the current sheet



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