

Chem-Bonded Castables



Product Data

RESCOBOND 90

RESCOBOND 90 is a phosphate bonded, chemically setting refractory castable that is prepared for use by mixing 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 90’s chemical bonding system provides adherence to existing refractory, making it an effective patching material. **RESCOBOND 90** 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 ³ (2640 kg/m ³)
2500°F (1370°C)	170 lb/ft ³ (2720 kg/m ³)

Erosion Loss: ASTM C-704

1500°F (815°C)	6.5 cc
2500°F (1370°C)	4.0 cc
2910°F (1600°C)	4.0 cc

Cold Crushing Strength:

1500°F (815°C)	7500 psi (525 kg/cm ²)
2500°F (1370°C)	21000 psi (1470 kg/cm ²)
2910°F (1600°C)	20000 psi (1400 kg/cm ²)

Modulus of Rupture:

2500°F (1370°C)	3800 psi (266 kg/cm ²)
2910°F (1600°C)	4300 psi (301 kg/cm ²)

Permanent Linear Change(%):

1500°F (815°C)	-0.3
2500°F (1370°C)	-1.1
2910°F (1600°C)	-1.8

Typical Chemical Analysis(%):

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	MgO/CaO	Alkalies	P ₂ O ₅
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.

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