

Chem-Bonded Castables

Product Data

RESCOBOND 3000

RESCOBOND 3000 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 3000's** chemical bonding system provides adherence to existing refractory, making it an effective patching material. **RESCOBOND 3000** can be installed by gunning, vibration casting, or hand-packing techniques.

Maximum Service Temperature: 3000°F (1650°C)

Bulk Density:

1500°F (815°C) 140 lb/ft³ (2240 kg/m³)
2500°F (1370°C) 138 lb/ft³ (2208 kg/m³)

Erosion Loss: ASTM C-704

1500°F (815°C) Less than 12 cc (Typical 8-10 cc)
2500°F (1370°C) Less than 10 cc (Typical 6-8 cc)

Cold Crushing Strength:

230°F (110°C) 6000-8000 psi (420-560 kg/cm²)
1500°F (815°C) 5000-9000 psi (350-630 kg/cm²)
2500°F (1370°C) 8000-12000 psi (560-840 kg/cm²)

Modulus of Rupture:

1500°F (815°C) 1200-1500 psi (84-105 kg/cm²)
2500°F (1370°C) 1400-1700 psi (98-119 kg/cm²)

Permanent Linear Change(%):

1500°F (815°C) 0.0 to -0.3
2500°F (1370°C) 0.0 to -0.3

Typical Chemical Analysis(%):

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	TiO ₂	MgO/CaO	Alkalies	P ₂ O ₅
55.1	32.6	0.8	1.5	5.6	0.2	4.2

Standard Packaging: 72 - 55 lb. bags per pallet

Data shown are average results of standard ASTM tests unless otherwise noted. Results will vary subject to normal variations in manufacturing, testing, and installation procedures in the field.