

Chem-Bonded Castables



Product Data

RESCOBOND 3000A

RESCOBOND 3000A 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 3000A’s chemical bonding system provides adherence to existing refractory, making it an effective patching material. RESCOBOND 3000A can be installed by 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

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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