



TECHNICAL 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 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 gunning, vibration casting, or hand-packing techniques.

Recommended Service Temperature Limit For

:Aluminum Applications..... 2200°F
 :All Other Applications..... 3000°F

Water Required for Mixing

:Cast..... 7.0 - 8.5%

Material Required Per Ft³..... 140 lb

Bulk Density (lb/ft³)

1500 °F (815 °C) 140
 2500 °F (1370 °C) 138

Cold Crushing Strength (lb/in²)

230 °F (110 °C) 6,000 - 8,000
 1500 °F (815 °C) 5,000 - 9,000
 2500 °F (1370 °C) 8,000 - 12,000

Modulus of Rupture (lb/in²)

1500 °F (815 °C) 1,200 - 1,500
 2500 °F (1370 °C) 1,400 - 1,700

Permanent Linear Change (%)

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

Erosion Loss (cc) ASTM C-704

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

Typical Chemical Analysis (%)

Al₂O₃ 55.1
 SiO₂ 32.6
 Fe₂O₃ 0.8
 TiO₂ 1.5
 MgO - CaO 5.6
 Alkalies 0.2
 P₂O₅ 4.2

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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