



# 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.

Recommended Service Temperature Limit For	
:All Applications.....	3000°F
Water Required for Mixing	
:Cast.....	7-8½%
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 cc (Typical 8-10 cc)  
2500 °F (1370 °C) Less than 10 cc (Typical 6-8 cc)

### Typical Chemical Analysis (%)

Al<sub>2</sub>O<sub>3</sub> ..... 55.1  
SiO<sub>2</sub> ..... 32.6  
Fe<sub>2</sub>O<sub>3</sub> ..... 0.8  
TiO<sub>2</sub> ..... 1.5  
MgO - CaO ..... 5.6  
Alkalies ..... 0.2  
P<sub>2</sub>O<sub>5</sub> ..... 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 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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