



# PRODUCT DATA

Brand Name:

## PYROCAST 3000C

Description: PYROCAST 3000C is a general purpose 3000°F usage limit castable. PYROCAST 3000C may be used to form complete furnace walls, special shapes, burner blocks and other applications.

Physical properties shown are average values of samples taken under controlled conditions  
ASTM test methods used where applicable

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

### Bulk Density (pcf)

After 1500°F (815°C)

### Casting Data

139

(2.22 g/cm<sup>3</sup>)

### Cold Crushing Strength (psi)

After 220°F (105°C)

5500 - 8000

(385 - 560 kg/cm<sup>2</sup>)

After 1500°F (815°C)

4500 - 6500

(315 - 455 kg/cm<sup>2</sup>)

### Thermal Conductivity (K Factor)

Mean Temperature

BTU/ft<sup>2</sup>/hr./°F/inch

W/mK

1000°F (540°C)

7.2

1.04

1500°F (815°C)

7.5

1.08

2000°F (1095°C)

7.9

1.14

### Permanent Linear Change (%)

After 1500°F (815°C)

-0.2 to +0.1

### Erosion Loss (cc)

After 1500°F (815°C)

Less than 18 cc

### Typical Chemical Analysis (%)

(Calcined Basis)

Alumina (Al <sub>2</sub> O <sub>3</sub> ) .....	60.3
Silica (SiO <sub>2</sub> ) .....	34.6
Lime (CaO) .....	2.7
Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> ) .....	0.7
Titania (TiO <sub>2</sub> ) .....	1.5
Magnesia (MgO) .....	0.1
Alkalies (Na <sub>2</sub> O+K <sub>2</sub> O) .....	0.1

Standard Packaging: 55 lb bag. 72 bags per pallet. Bulk packaging available.

Brand Code: 0244

The properties shown on this data sheet represent typical average results 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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