



# PRODUCT DATA

**Brand Name:**

## FURNACUBED™ 85 QT

**Description:** FURNACUBED™ 85 QT is an aluminum-resistant, 85 % alumina low cement castable that can be heated without using the traditional ramp-and-hold heatup schedule. This product was formulated for use in high wear areas in aluminum reverberatory furnaces and allow for a shorter heatup schedule and less furnace downtime. FURNACUBED™ 85 QT can be installed by vibration casting, pumpcasting, or self-leveling installation techniques.

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

**Maximum Service Temperature: 2800°F (1538°C) 2200°F (1204°C) Aluminum non-wetting**

**Typical Water Required for Mixing (by weight) :**

Vibration Cast .....	3.5 - 4.5%
Self Leveling .....	4.5 - 5.5%

**Bulk Density (pcf)**

	Vibration Cast Data	
After 220°F (105°C)	185 - 191	(2.96 - 3.06 g/cm <sup>3</sup> )
After 1500°F (815°C)	181 - 187	(2.90 - 2.99 g/cm <sup>3</sup> )

**Cold Crushing Strength (psi)**

After 220°F (105°C)	8500 - 13500	(595 - 945 kg/cm <sup>2</sup> )
After 1500°F (815°C)	14500 - 18500	(1015 - 1295 kg/cm <sup>2</sup> )

**Modulus of Rupture (psi)**

After 220°F (105°C)	1700 - 2200	(119 - 154 kg/cm <sup>2</sup> )
After 1500°F (815°C)	3200 - 3800	(224 - 266 kg/cm <sup>2</sup> )

**Permanent Linear Change (%)**

After 1500°F (815°C)	-0.1 to 0.1
After 2550°F (1400°C)	0.1 to 0.5

**Abrasion Loss (ASTM C-704)**

After 1500°F (815°C)	Less than 5 cc
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**Typical Chemical Analysis (%)**

(Calcined Basis)

Alumina (Al <sub>2</sub> O <sub>3</sub> ) .....	85.5
Silica (SiO <sub>2</sub> ) .....	9.8
Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> ) .....	0.8
Titania (TiO <sub>2</sub> ) .....	2.2
Lime (CaO) .....	1.2
Magnesia (MgO) .....	0.1
Alkalies (Na <sub>2</sub> O+K <sub>2</sub> O) .....	0.4

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

Brand Code: 1602

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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