



# PRODUCT DATA

**Brand Name:**

## QUIKTURN 65PCA

**Description:** QUIKTURN 65 PCA is an aluminum-resistant, 60% alumina, low cement castable that can be vibration cast, pumped, or shotcreted. QUIKTURN 65 PCA has excellent strength and resistance to molten aluminum. After the initial set, this castable can be heated without using the traditional ramp-and-hold heatup schedule. Refer to the recommended QUIKTURN heatup schedule for initial heatup.

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

**Maximum Service Temperature: 2000°F (1093°C) Molten Aluminum Contact**

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

Pump Cast ..... 6.0 - 6.5%

| <u>Bulk Density (pcf)</u>           | <u>Pump Cast Data</u> |                           |
|-------------------------------------|-----------------------|---------------------------|
|                                     |                       |                           |
| After 1500°F (815°C)                | 155                   | (2.48 g/cm <sup>3</sup> ) |
| <u>Cold Crushing Strength (psi)</u> |                       |                           |
| After 1500°F (815°C)                | 8400                  | (588 kg/cm <sup>2</sup> ) |
| <u>Permanent Linear Change (%)</u>  |                       |                           |
| After 1500°F (815°C)                | -0.3 to 0.0           |                           |
| <u>Hot Modulus of Rupture (psi)</u> |                       |                           |
| At 1500°F (815°C)                   | 3980                  | (278 kg/cm <sup>2</sup> ) |

### Aluminum Cup Test Results

At 1500°F (815°C) for 72 hours using 7075 alloy

|                |          |
|----------------|----------|
| Reaction       | None     |
| Penetration    | None     |
| Adherence      | Moderate |
| Silicon Pickup | +0.21%   |
| Iron Pickup    | None     |

### Typical Chemical Analysis (%)

(Calcined Basis)

|   |      |
|---|------|
| Alumina (Al <sub>2</sub> O <sub>3</sub> ) .....     | 61.6 |
| Silica (SiO <sub>2</sub> ) .....                    | 29.4 |
| Lime (CaO) .....                                    | 1.5  |
| Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> ) .....  | 0.8  |
| Titania (TiO <sub>2</sub> ) .....                   | 1.6  |
| Magnesia (MgO) .....                                | 0.1  |
| Alkalies (Na <sub>2</sub> O+K <sub>2</sub> O) ..... | 0.1  |
| Others .....  | 4.9  |

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

Brand Code: 1508

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.

RESOCO PRODUCTS disclaims any express or implied warranties based on this sheet.

03/06/17 is the date that this data sheet was updated. Check with your RESOCO sales representative or RESOCO website to determine you have the current sheet.