



# PRODUCT DATA

Brand Name:

**C-4**

**Clay-Graphite for Ingates**

**Description:** Highly refractory material used in the continuous casting process for making metal railroad wheels. It is non-wetting for ferrous metals.

Physical properties shown are averages based on standard brick sizes.  
ASTM test methods used where applicable

**Bulk Density (pcf)**

As Received 122

**Apparent Porosity (%)**

As Received 18.5

**Total Carbon (%)**

As Received 36.5

**Typical Chemical Analysis (%)**

(Calcined Basis)

Alumina (Al <sub>2</sub> O <sub>3</sub> ) .....	35.3
Silica (SiO <sub>2</sub> ) .....	61.1
Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> ) .....	1.1
Titania (TiO <sub>2</sub> ) .....	0.9
Lime (CaO) .....	0.5
Magnesia (MgO) .....	0.3
Alkalis (Na <sub>2</sub> O+K <sub>2</sub> O) .....	0.8

Brand Code: 4917

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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