



# PRODUCT DATA

**Brand Name:**

**CORELITE**

**Description:** CORELITE is a high thermal shock resistant extruded refractory material based on a rich mullite/cordierite composition, suitable to cone 10 firing temperatures. The hollow shelves are available in many shapes and sizes, including: rectangles, rounds, half-rounds, octagons, and decagons. A wide assortment of tooling and dies are available to accommodate both standard and specialized kiln configurations.

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

**Maximum Service Temperature: 2336°F (1280°C)**

**Bulk Density (pcf)**

As Received 127 (2.03 g/cm<sup>3</sup>)

**Modulus of Rupture (psi)**

As Received 2175 (152 kg/cm<sup>2</sup>)

**Apparent Porosity (%)**

As Received 25

**Coefficient of Thermal Expansion (Avg)**

From 70°F (21°C) to 1112°F (600°C) 1.06 (x 10<sup>-6</sup> in/in/°F) 1.90 (x 10<sup>-6</sup> cm/cm/°C)

**Typical Chemical Analysis (%)**

(Calcined Basis)

Alumina (Al <sub>2</sub> O <sub>3</sub> ) .....	48.8
Silica (SiO <sub>2</sub> ) .....	44.4
Magnesia (MgO) .....	4.6
Lime (CaO) .....	0.1
Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> ) .....	0.9
Titania (TiO <sub>2</sub> ) .....	0.5
Alkalis (Na <sub>2</sub> O+K <sub>2</sub> O) .....	0.8

Brand Code: 5228

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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