



PRODUCT DATA

Brand Name: **HOTZONE® 80**

Description: An 80% MgO burned brick composed of periclase and chrome ore, designed specifically for transition and hot zones of rotary cement kilns. Has low silica content and is compatible with cement clinker and has good spall resistance.

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

Bulk Density (pcf)

As Received 182 (2.92 g/cm³)

Modulus of Rupture (psi)

At 70°F (21°C) 490 (34.3 kg/cm²)
At 2300°F (1260°C) 730 (51.1 kg/cm²)

Cold Crushing Strength (psi)

As Received 3790 (265.3 kg/cm²)

Apparent Porosity (%)

As Received 18.4

Typical Chemical Analysis (%)

(Calcined Basis)

Magnesia (MgO)	80.2
Chromic Oxide (Cr ₂ O ₃)	8.5
Silica (SiO ₂)	1.1
Alumina (Al ₂ O ₃)	3.6
Lime (CaO)	1.3
Iron Oxide (Fe ₂ O ₃)	5.3

Brand Code: 1308

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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