



PRODUCT DATA

Brand Name: **KRIAL® 50 CM**

Description: KRIAL® 50 is a low alkali ladle brick that has provided outstanding service. It has excellent strengths, low porosity, and desirable expansion behavior. KRIAL® 50 continues to be an excellent choice for sidewalls and bottoms in milder ladle environments and for safety linings where more refractory linings are necessary.

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

Bulk Density (pcf)

As Received 152 (2.43 g/cm³)

Modulus of Rupture (psi)

At 70°F (21°C) 2,100 (147 kg/cm²)

Cold Crushing Strength (psi)

At 70°F (21°C) 10,200 (714 kg/cm²)

Apparent Porosity (%)

As Received 13.0

Permanent Linear Change (%)

After 2910°F (1600°C)/5 hours +0.8

Typical Chemical Analysis (%)

(Calcined Basis)

Alumina (Al ₂ O ₃)	53.4
Silica (SiO ₂)	40.1
Iron Oxide (Fe ₂ O ₃)	1.4
Titania (TiO ₂)	2.5
Lime (CaO)	0.1
Magnesia (MgO)	0.1
Phosphorus Pentoxide (P ₂ O ₅)	2.0
Alkalis (Na ₂ O+K ₂ O)	0.4

Brand Code: 7264

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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