



PRODUCT DATA

Brand Name: GREENFREE KF

Description: GREENFREE KF is a chrome free magnesia brick with increased insulating value for lower rotary kiln shell temperatures. GREENFREE KF has good structural flexibility and provides enhanced thermal shock properties and makes the product suitable for cement kiln upper transition zones and burning zones of rotary pebble lime and lime recovery kilns.

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

Bulk Density (pcf)

As Received 171 (2.74 g/cm³)

Modulus of Rupture (psi)

At 70°F (21°C) 600 (42.2 kg/cm²)

Cold Crushing Strength (psi)

At 70°F (21°C) 4090 (287.6 kg/cm²)

Apparent Porosity (%)

As Received 21.1

Thermal Conductivity (K Factor)

Mean Temperature 1500°F (816°C) BTU/ft²/hr./°F/inch 19.5

Typical Chemical Analysis (%)

(Calcined Basis)

Magnesia (MgO)	87.2
Alumina (Al ₂ O ₃)	10.0
Silica (SiO ₂)	0.7
Iron Oxide (Fe ₂ O ₃)	0.7
Lime (CaO)	1.4

Brand Code: 5491

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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