



PRODUCT DATA

Brand Name:

NULINE 3-99

Description:

RESIN BONDED, MAGNESIA-CARBON BRICK

Fused Grain and Antioxidant Additions

Physical properties shown are averages based on standard brick sizes.

ASTM test methods used where applicable

Bulk Density (pcf)

As Received	184	(2.95 g/cm ³)
After Coking	181	(2.90 g/cm ³)

Modulus of Rupture (psi)

At 70°F (21°C)	1900	(133 kg/cm ²)
At 2000°F (1093°C)	3800	(266 kg/cm ²)

Cold Crushing Strength (psi)

At 2800°F (1538°C)	4500	(315 kg/cm ²)
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Coked Porosity (%)

After Coking	10.5
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Total Carbon (%)

After Coking	14.0
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Typical Chemical Analysis (%)

(Calcined Basis including Antioxidant Addition)

Magnesia (MgO)	90.6
Silica (SiO ₂)	0.5
Alumina (Al ₂ O ₃)	7.4
Lime (CaO)	1.1
Iron Oxide (Fe ₂ O ₃)	0.4

Brand Code: 4812

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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