



# PRODUCT DATA

**Brand Name:** **NULINE 13 AF TI**  
**Description:** RESIN BONDED, MAGNESIA-CARBON BRICK  
Fused Grain, Antioxidant Additions, and Tar Impregnated

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

**Bulk Density (pcf)**

As Received	188	(3.01 g/cm <sup>3</sup> )
After Coking	182	(2.92 g/cm <sup>3</sup> )

**Modulus of Rupture (psi)**

At 70°F (21°C)	2500	(175 kg/cm <sup>2</sup> )
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**Coked Porosity (%)**

After Coking	10.3
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**Total Carbon (%)**

After Coking	14.3
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**Typical Chemical Analysis (%)**

(Calcined Basis including Antioxidant Addition)

Magnesia (MgO) .....	91.3
Silica (SiO <sub>2</sub> ) .....	0.6
Alumina (Al <sub>2</sub> O <sub>3</sub> ) .....	6.3
Lime (CaO) .....	1.3
Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> ) .....	0.5

Brand Code: 8959

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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