



# Brick

## Product Data

### NULINE R-20<sup>®</sup> SA

Classification: Magnesia - Carbon Brick Resin Bonded  
20 % Carbon Class  
Strength and Antioxidant Additions

<u>Physical Data: (Typical)</u>	<u>English Units</u>	<u>SI Units</u>
	<u>lb/ft<sup>3</sup></u>	<u>kg/m<sup>3</sup></u>
Bulk Density	176	2,819
Coked Properties		
Density	171	2,739
Porosity, %	11.5	11.5
Total Carbon, %	18.2	18.2
	<u>lb/in<sup>2</sup></u>	<u>N/mm<sup>2</sup></u>
Crushing Strength		
At 2800°F (1538°C)	1,250	9
Modulus of Rupture		
At 70°F (21°C)	1,600	11
At 2000°F (1093°C)	1,560	11
<u>Chemical Analysis: (Approximate)</u>		
(Calcined Basis)		
Silica	(SiO <sub>2</sub> )	4.1 %
Alumina	(Al <sub>2</sub> O <sub>3</sub> )	4.6
Iron Oxide	(Fe <sub>2</sub> O <sub>3</sub> )	0.3
Lime	(CaO)	1.8
Magnesia	(MgO)	89.2

The properties shown on this data sheet represent typical average results generated 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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