



PRODUCT DATA

Brand Name: **NITERM 500**

Physical properties shown are average values of samples taken under controlled conditions
ASTM test methods used where applicable

Maximum Service Temperature: 2910°F (1600°C)

Bulk Density (pcf)

As Received 159 - 165 (2.55 - 2.65 g/cm³)

Modulus of Rupture (psi)

At 70°F (21°C) 4350 - 6500 (305 - 455 kg/cm²)

Apparent Porosity (%)

As Received 15 - 18

Thermal Conductivity (K Factor)

Mean Temperature	<u>BTU/ft²/hr./°F/inch</u>	<u>W/mK</u>
2200°F (1200°C)	113	16.3

Typical Chemical Analysis (%)

(Calcined Basis)

Silicon Carbide (SiC)	77.0 - 73.0
Silicon Nitride (Si ₃ N ₄)	25.0 - 21.0
Silica (SiO ₂)	3.0 - 1.0
Iron Oxide (Fe ₂ O ₃)	0.5 - 0.0

Brand Code: 2805 Combustol Material : 6015

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 guarantee d 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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