



# ENVIRONMENTAL PROTECTION PRODUCTS AND THERMAL BARRIERS For A Green World

## CERMEX® BK1800SW NEEDED BLANKET

CERMEX® BK1800SW BLANKET is a low biopersistence blanket that has excellent thermal stability, low heat storage, and is immune to thermal shock. CERMEX® BK1800SW has excellent non-wetting properties with molten aluminum, and is resistant to most chemicals, with the exception of hydrofluoric acid, strong alkalies, and phosphoric acid.



### AVERAGE PHYSICAL PROPERTIES

Material	Alkaline Earth Silicate Wool	
Construction	Needled and felted blanket/mat	
Thickness, inches • mm	.250, .500, 1.00, 1.50, 2.00 • 6.35, 12.75, 25, 38, 50	
Use Limit, continuous	1832°F • 1000°C	
Linear Shrinkage, %, 24 hours	<1 @ 1800°F • 982°C	
Density, lbs/ft <sup>3</sup> • kg/m <sup>3</sup>	4, 6, 8, 10 • 64, 96, 128, 160	
Thermal Conductivity, BTU-in/hr/sf • (w/m•K)	6 lbs/ft • 96 kg/m <sup>3</sup>	8 lbs/ft • 128 kg/m <sup>3</sup>
@ 500°F • 260°C	0.46 • 0.06	0.46 • 0.06
@ 1000°F • 538°C	0.81 • 0.11	0.46 • 0.06
@ 1500°F • 816°C	1.26 • 0.18	0.46 • 0.06
@ 1800°F • 982°C	1.57 • 0.22	0.46 • 0.06
Tensile Strength, psi • (kPa) for 8 lbs/ft • 128 kg/m <sup>3</sup>	11 • 75	
Chemical Analysis, %		
Silica, SiO <sub>2</sub>	62 - 68	
Calcium Oxide, CaO + Magnesium Oxide, MgO	29 - 39	
Other	<3	
Width, inches • mm	24, 48 • 609, 1219	

Tolerance is +/- 10% unless otherwise stated.

The technical data presented herein are indicative of representative properties and are intended as a specification guide only. No warranties are expressed or implied as application conditions are beyond our control.

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