



## THE FINAL BARRIER AGAINST ABRASION, CHEMICALS AND HEAT

### CERMEX® PR1800-SW CERAMIC FIBER PAPER

CERMEX® PR1800-SW CERAMIC FIBER PAPER is a high performance, ceramic fiber insulating material with high strength properties and low thermal conductivity. With low organic binder content, CERMEX® PR1800-SW has very low off-gassing, provides excellent thermal stability, and has high resistance to chemical attack.



#### AVERAGE PHYSICAL PROPERTIES

Material	Alkaline Earth Silicate Wool
Construction	Paper with organic binder
Continuous Use Limit	1832°F • 1000°C
Melting Point	2372°F • 1300°C
Maximum Use Limit	2012°F • 1100°C
Density, lb./ft <sup>3</sup> • kg/m <sup>3</sup> , nominal	10 - 13 • 160 - 208
Tensile Strength, psi • (Mpa), Standard	75 - 100 • (0.52 - 0.69)
Tensile Strength, psi • (Mpa), Fired	5 - 10 • (0.03 - 0.06)
Thermal Conductivity	BTU-in/hr./ft <sup>2</sup> /°F • w/m °C
500°F • 260°C	.39 • .057
1000°F • 538°C	.55 • .079
1500°F • 816°C	.87 • .126
1800°F • 932°C	1.05 • .152
Typical Chemical Analysis, %	
Alumina, AL <sub>2</sub> O <sub>3</sub>	trace
Silica, SiO <sub>2</sub>	60 -70
Calcium Oxide, CaO	25 - 35
Magnesium Oxide, MgO	4 - 7
Others	1
Loss on Ignition, %	5 - 10
Thickness, inches • mm	.125, .250 • 3.175, 6.25
Widths, inches • cm	12 - 24 - 48 • 30.5 - 61 - 122 (+/- 5%)

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.