

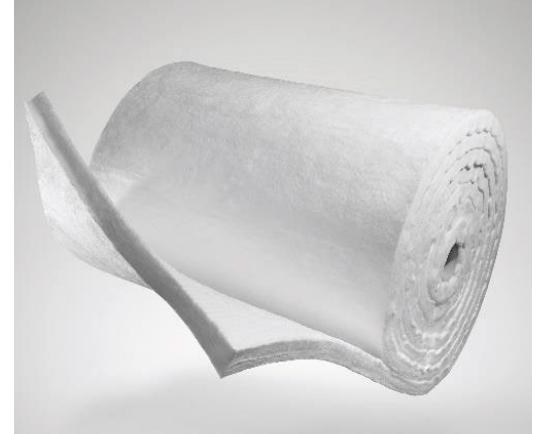


FC BLANKET

FibreCast Blankets are high temperature low shot content high temperature wools that utilizes a unique spinning technology which results in superior thermal and mechanical properties. Alumino-silicate fiber can be exposed to temperatures up to 2300 °F (1260 °C), while the zirconia fiber blends can be exposed to 2600 °F (1425 °C). The polycrystalline alumina blanket provides a solution to 3000 °F (1600 °C) applications. A non biosoluble blanket is also available as our LBP grade.

FC-Blankets have high tensile strengths resulting in excellent workability and durability characteristics.

Blankets can be cut into custom strips or gaskets, while also being used for fiber module fabrication.



TECHNICAL COMPARISON

	LBP (NON RCF)	HP	ZR	PC
Colour	White	White	White	White
Temperature Grade	2012 °F (1100 °C)	2300 °F (1260 °C)	2600 °F (1427 °C)	2912 °F (1600 °C)
Recommended Operating Temperature	2012 °F (1100 °C)	2150 °F (1175 °C)	2450 °F (1343 °C)	2912 °F (1600 °C)
Melting Point	2320 °F (1270 °C)	3200 °F (1760 °C)	3200 °F (1760 °C)	3400 °F (1871 °C)
Density Available pcf (kg/m3)	4, 6, 8, 10 (64, 96, 128, 160)	4, 6, 8, 10 (64, 96, 128, 160)	4, 6, 8, 10 (64, 96, 128, 160)	6, 8 (96, 128)
Linear Shrinkage 24h	@ 1832 °F (1000 °C) 1.2%	@ 2012 °F (1100 °C) 1.8%	@ 2372 °F (1300 °C) 2.0%	@ 2732 °F (1500 °C) 0.8%
Chemical Composition				
Al ₂ O ₃	-	44-50%	33-37%	72.0%
SiO ₃	60-70%	50-56%	47-51%	27.7%
MgO	3-7%	-	-	-
ZrO ₂	-	-	13-19%	-
CaO	25-35%	-	-	-
Other	-	-	<1%	<1%

TYPICAL APPLICATIONS

FERROUS

Coke Oven Seals
Soaking Pit Covers
Door Seals
Reheat Furnaces
Ladle Covers
Tundish Seals
Gaskets

CERAMIC INDUSTRY

Kiln Car Insulation/Seals
Continuous/Batch Kilns

PETROCHEMICAL

Fired Heaters
Reformer/Pyrolysis Furnaces
High Temperature Ducts/Pipes
Turbine Insulation
Crude Oil Heaters

POWER GENERATION

Boiler Doors
Boiler Insulation
Pipe Coverings

NON FERROUS

Homogenizing Furnace
Annealing Furnace
Furnace Doors
Trough Covers

OTHER APPLICATIONS

Stress Relieving
Veneer Over Existing Refractory
Glass Furnaces
Fire Protection

FEATURES

Low Thermal Conductivity

High Tensile Strength

Thermal Shock Resistant

Excellent Workability

Sound Absorption

No Dryout Required

Note: During the initial heat up of FC Boards and Shapes, a small amount of organic binder will start to burn out at approximately 450 °F/232 °C. Once this material has burned off, there will be no further off-gassing. Caution should be exercised during this period. Organic free products are available. The recommended operating temperature is determined by irreversible linear change, not the melting point. Store in a manner to minimize airborne dust. Data is based on results of tests conducted under standard conditions. Results are subject to variation. Results are presented as a guide only.

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