FIBRECAST

FC PAPER AND GASKETS
TECHNICAL DATA

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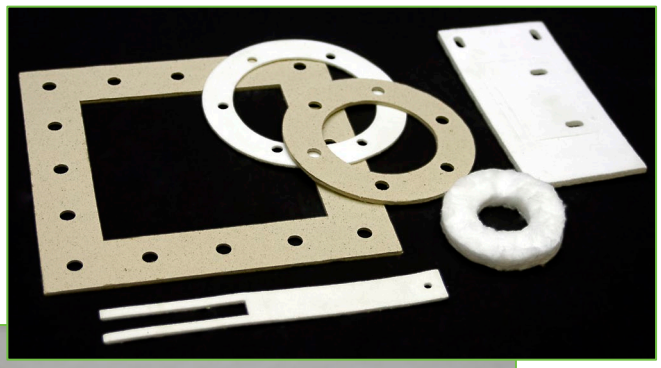

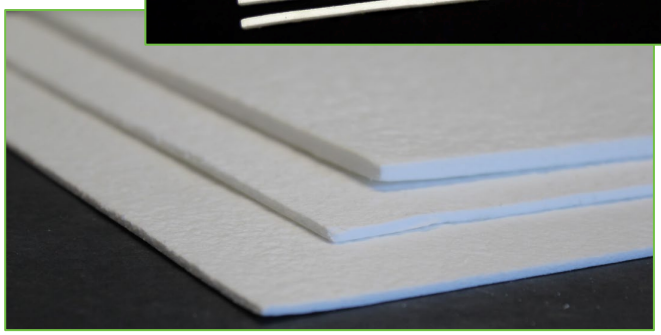

FibreCast Paper is a high temperature Refractory Ceramic Fiber (HP, ZR) or Biosoluble Paper. **FC-HP Paper** is classified to 2300°F (1260°C), and is a blend of alumino-silicate fibers formed into a flexible rolled sheet. **FC-ZR Paper** is classified to 2600°F (1430°C), with an alumino-silica-zirconia chemistry. The **FC-LBP** fiber is based on a calcium, magnesium, silicate chemistry classified to 2192°F (1200°C). With excellent handling strength and low thermal conductivity these materials make an ideal material for custom die cut gaskets, seals or backup insulation.

FC-Gaskets provide a high quality and cost-effective solution for many high temperature/low pressure gasket requirements. In-house die making ability allows for quick turnaround of prototype parts. Die cutting of both blanket and paper is available to meet customer demands. Other Materials available upon request

TECHNICAL COMPARISON

	LBP	STD	HP	ZR
Colour	White	White	White	White
Temperature Grade	2192°F (1200°C)	2300°F (1260°C)	2300°F (1260°C)	2600°F (1430°C)
Recommended Operating Temperature	1832°F (1000°C)	1832°F (1000°C)	2150°F (1176°C)	2450°F (1343°C)
Density pcf (kg/m3)	12 -13 (192-208)	10-12 (160-192)	10-12 (160-192)	10-12 (160-192)
Linear Shrinkage (24hr)	<1.5% at 1832°F (1000°C)	<4% at 1922°F (1050°C)	<3% at 1922°F (1050°C)	<3% at 2012°F (1100°C)
Chemical Composition				
Al2O3	<1.5%	45-46%	47-49%	32-40%
SiO2	55-63%	51-52%	50-52%	53-58%
MgO	3-8%	-	-	-
CaO	23-28%	-	-	-
ZrO	-	-	-	11-16%
Other	<2%	<2%	<2%	<2%
Thermal Conductivity Btu-in/hr ft2 °F (W/mK)				
752°F (400°C)	0.69 (0.1)	0.69 (0.09)	0.69 (0.1)	
1112°F (600°C)	1.11 (0.16)	1.04 (0.12)	1.04 (0.15)	0.69 (0.1)
1472°F (800°C)	1.52 (0.22)	1.39 (0.17)	1.39 (0.2)	1.39 (0.2)
1832°F (1000°C)		1.94 (0.21)	1.94 (0.28)	1.53 (0.22)

Typical Applications

- Insulating Gaskets
- Door Seals
- Boiler Door Seals
- Expansion Joints
- Furnace and Ladle Backup Insulation
- Electrical-Heating Devices
- Wrapping for Hot Tooling and Molds
- Molten Metal Gaskets
- Acoustic and Thermal Insulation for Vehicles

Features

- Low Thermal Conductivity
- Low Heat Storage
- Thermal Shock Resistance
- Excellent Tensile Strength
- Easy to Cut
- Low Shrinkage
- Easy to Wrap/Shape
- Sound Absorption

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