



# FIBERSEAL FELTS AND BLANKETS

## HIGH-TEMPERATURE INSULATING MATERIALS

Pyrotek offers felts and blankets suited to meet demanding application needs over many temperatures, material thicknesses and densities.

### BENEFITS

- Ceramic fibre free materials are available
- Minimizes energy costs by improving seals

### APPLICATIONS

- Gasketing
- Siphon seals
- Fire and insulation blankets
- Furnace linings



### FIBERSEAL FELTS

Name	Description/Advantage	Application/Temperature Resistance	Dimensions—mm (in) <i>NOTE: Size and specifications may change. Check with your Pyrotek sales engineer for availability.</i>	Density— kg/m <sup>3</sup> (lb/ft <sup>3</sup> )
G-1, G-1F	Yellow to amber in colour. An inexpensive, tough material. Will not support combustion. F = formaldehyde-free.	High-temperature gaskets. Rated for use up to 650°C (1200°F).	610 x 30,500 x 13 (24 x 1200 x 0.5)	48 (3)
G-2, G-2F			610 x 30,500 x 25 (24 x 1200 x 1)	32 (2)
IR-3	White/grey/tan in colour. Felt-like intumescent material which expands between 350–540°C (665–1000°F). Loss of 5–16% on ignition.	Compressible gaskets, collector bar seals, siphon gaskets, flange gaskets, ceramic filters. Rated for use up to 950°C (1740°F).	Custom rolls, approximately 3, 4, 6 (0.125, 0.16, 0.25) thick	625 (39)
IR-4	White/grey/tan in colour. Felt-like intumescent material with low binder content and increased resiliency to maximize low-temperature performance. It expands between 350–540°C (665–1000°F).	High-temperature gaskets. Rated for use up to 960°C (1760°F).	Custom rolls, approximately 3, 4, 6, 8 (0.125, 0.16, 0.25, 0.32) thick	≥800 (50)
IR-4-NC	White/grey/tan in colour. Felt-like intumescent, Non-RCF, material with low binder content and increased resiliency to maximize low-temperature performance. It expands between 350–540°C (665–1000°F).	High-temperature gaskets. Rated for use up to 750°C (1382°F).	Custom rolls, approximately 3, 4, 6, 8 (0.125, 0.16, 0.25, 0.32) thick	>800 (50)





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O-1	E-glass, light yellow to white in colour. Also called needlemat, needled fibreglass mat, tempmat, or continuous filament fibreglass blanket. Excellent vibration resistance. Not affected by 1.55 MPa (225 lb/in <sup>2</sup> ) steam. Has a tensile strength of approximately 0.07 MPa (10 lb/in <sup>2</sup> ).	High density gaskets at elevated temperatures. High pressure systems and air collection systems.  U.S. product temperatures: Maximum—650°C (1200°F) Continuous—538°C (1000°F)  European product temperatures: Maximum—550°C (1022°F) Continuous—450°C (842°F)	Width: 1524 mm (60 in)  Roll length—various lengths: 10,000 or 50,000 mm (394 or 1969 in)  Sheet length—various lengths: 1000 or 2000 mm (39 or 79 in)  Thickness: 3, 6, 13, 25, 38 mm (0.125, 0.25, 0.5, 1, 1.5 in)	Sheets: 140–185 (9–12)  Rolls: 75–150 (5–9)
O1-C	Orange to red in colour. O-1 with a red silicone coating. C = coating.	Siphon, air collection system, and carbon bake seals. Makes an excellent air-tight, abrasion resistant seal. Rated for use up to 650°C (1200°F). The flame-retardant silicone coating becomes brittle at temperatures slightly above 315°C (600°F).		256 (16)

## FIBERSEAL BLANKETS AND PADS

Name	Description/Advantage	Application/Temperature Resistance	Dimensions—mm (in) <i>NOTE: Size and specifications may change. Check with your Pyrotek sales engineer for availability.</i>	Density—kg/m <sup>3</sup> (lb/ft <sup>3</sup> )
Fiberseal Packing Wool (see separate dedicated datasheet)	Tan to light yellow in colour. Asbestos free, noncombustible, bulk mineral wool fibrous glass material. Mineral oil binder.	Packable thermal insulation to fill grooves, slots, hard-to-reach openings, electrical conduit breaks. Maximum one side temperature of 427–650°C (800–1200°F).	Bulk	64–128 (4–8)
SB-20, Pyrosil 2000, SB-21	White in colour. Refractory ceramic fibre (RCF) free, Non-RCF. Needled, insulating, continuous filament, silica fibre blanket.	High strength and abrasion resistant. Used for soft trough covers. Service temperature ratings: SB-20 and Pyrosil to 1100°C (2000°F), SB-21 to 982°C (1800°F).	3 x 900 x 39,600 (0.0125 x 36 x 1560) 6 x 900 x 30,500 (0.25 x 36 x 1200) 12 x 900 x 15,200 (0.5 x 36 x 600) 25 x 900 x 1000 (1 x 36 x 396)	128 (8) 128 (8) 144 (9) 170 (10)
L-4, L-6, L-8	White in colour. Lightweight high-temperature RCF blanket. Strong and durable needled material.	Furnace linings, gaskets, expansion joints, fire blankets, fire pillows. Rated for use up to 1427°C (2600°F).	610 x 7600 x 6 (24 x 300 x 0.25) 610 x 7600 x 13 (24 x 300 x 0.5) 610 x 7600 x 25 (24 x 300 x 1) 610 x 7600 x 38 (24 x 300 x 1.5) 610 x 7600 x 51 (24 x 300 x 2) 1219 x 7600 x 6 (48 x 300 x 0.25) 1219 x 7600 x 13 (48 x 300 x 0.5) 1219 x 7600 x 25 (48 x 300 x 1) 1219 x 7600 x 38 (48 x 300 x 1.5) 1219 x 7600 x 51 (48 x 300 x 2)	L-4: 64 (4)  L-6: 96 (6)  L-8: 128 (8)
M-4	White in colour. High-temperature RCF material.	Gaskets, trough covers, trough gaskets. Rated for use up to 1260°C (2300°F).	610 x 15,200 x 25 (24 x 600 x 1)	64 (4)





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M-6, M-8	White in colour. High-temperature material. Stitched with fibres. Contains no binders. RCF material not changed by high temperature exposure.	Gaskets, furnace linings, general insulation applications. Rated for use up to 1260°C (2300°F).	610 x 7600 x 6 (24 x 300 x 0.25) 610 x 7600 x 13 (24 x 300 x 0.50) 610 x 7600 x 25 (24 x 300 x 1) 610 x 7600 x 38 (24 x 300 x 1.5) 610 x 7600 x 51 (24 x 300 x 2)	M-6: 96 (6) M-8: 8 (128)
M-9	White in colour. High-temperature RCF free insulation with excellent chemical resistance. Shot free.	Blankets. Rated for use up to 1260°C (2300°F).	889 x 24,400 x 13 (35 x 960 x 0.5) 914 x 10,100 x 25 (36 x 396 x 1)	144 (9)
SF-607	White in colour. Soluble amorphous wool. RCF free.	Trough repair, pot bake blankets, flexible joint packaging, carbon bake insulation plugs, furnace linings. Rated for use up to 1000°C (1832°F).	610 x 7600 x 6 (24 x 300 x 0.25) 610 x 7600 x 13 (24 x 300 x 0.5) 610 x 7600 x 51 (24 x 300 x 2) 1219 x 7600 x 6 (48 x 300 x 0.25) 1219 x 7600 x 13 (48 x 300 x 0.5) 1219 x 7600 x 51 (48 x 300 x 2)	96 (6) 128 (8)
Pyrotek Non-RCF Blanket 2200*	Composed of a high-temperature, body soluble blend of calcium, silica and magnesium fibres.	Back-up insulation, heat treating furnaces, insulating pads and expansion joints. Rated for continuous use up to 1100°C (2012°F) with a 1204°C (2200°F) maximum use temperature.	12.5 x 610 x 7620 (0.5 x 24 x 300) 12.5 x 610 x 15,240 (0.5 x 24 x 600) 12.5 x 1220 x 7620 (0.5 x 48 x 300) 19 x 610 x 7620 (0.75 x 24 x 300) 25 x 102 x 6706 (1 x 4 x 264) 25 x 610 x 7620 (1 x 24 x 300) 25 x 1220 x 7620 (1 x 48 x 300) 38 x 610 x 3810 (1.5 in x 24 x 150) 50 x 610 x 3810 (1.75 x 24 x 150) 51 x 610 x 3810 (2 x 24 x 150)	64 (4) 96 (6) 128 (8) 160 (10)
Pyrotek Ceramic Blanket 2300*	Composed of long, flexible interwoven aluminium oxide and silicon dioxide fibres.	Tube seals, gaskets, expansion joints, furnace door linings and seals, furnace hot face repairs, ladle covers, refractory veneer. Rated for continuous use up to 1204°C (2200°F) with a 1260°C (2300°F) maximum use temperature.	12.5 x 305 x 15,240 (0.5 x 12 x 600) 12.5 x 610 x 7620 (0.5 x 24 x 300) 12.5 x 1220 x 7620 (0.5 x 48 x 300) 25 x 152 x 7620 (1 x 6 x 300) 25 x 305 x 7620 (1 x 12 x 300) 25 x 610 x 7620 (1 x 24 x 300) 25 x 1220 x 7620 (1 x 48 x 300) 38 x 610 x 3810 (1.5 x 24 x 150) 51 x 610 x 3810 (2 x 24 x 150) 51 x 610 x 7620 (2 x 24 x 300) 51 x 1220 x 3810 (2 x 48 x 150)	64 (4) 96 (6) 128 (8) 160 (10)
Pyrotek Ceramic Blanket 2600*	Composed of long, flexible interwoven aluminium oxide, silicon dioxide and zirconium oxide fibres.	Tube seals, gaskets, expansion joints, furnace door linings and seals, furnace hot face repairs, ladle covers, refractory veneer. Rated for continuous use up to 1343°C (2450°F) with a 1427°C (2600°F) maximum use temperature.	25 x 610 x 7620 (1 x 24 x 300)	64 (4) 96 (6) 128 (8) 160 (10)

\* Product only available in North America.



## FIBERSEAL FELTS AND BLANKETS

### UNIFRAX AND PROMAT MATERIAL NAMES

Name	Description/Advantage	Application/Temperature Resistance	Dimensions <i>NOTE: Size and specifications may change. Check with your Pyrotek sales engineer for availability.</i>	Density— kg/m <sup>3</sup> (lb/ft <sup>3</sup> )
Insulfrax <sup>®</sup> , PROMAGLAF™ 1200	White in colour. Non-RCF*, alkaline-earth silicate (AES). Low thermal conductivity, thermal shock resistant, lightweight, flexible, low density, easy to work.	Service temperature ratings: Insulfrax up to 1100°C (2012°F), PROMAGLAF up to 1200°C (2192°F).	Various delivery sizes and forms. Check with your Pyrotek sales engineer for availability.	64–160 (4–10)
Isofrax <sup>®</sup> , PROMAGLAF™ 1250	White to bluish white in colour. Non-RCF*, alkaline-earth silicate (AES). Low thermal conductivity, thermal shock resistant, light weight, chemical stability, high strength and flexibility.	Service temperature ratings: Isofrax up to 1260°C (2300°F), PROMAGLAF up to 1250°C (2282°F).	Various delivery sizes and forms. Check with your Pyrotek sales engineer for availability.	96–128 (6–8)
Fiberfrax <sup>®</sup> , ALISIFLEX™	White in colour. Refractory ceramic fibre (RCF). Low thermal conductivity, thermal shock resistant, lightweight, resists corrosion.	Service temperatures for both up to 1430°C (2600°F).	Various delivery sizes and forms. Check with your Pyrotek sales engineer for availability.	64–128 (4–8)

\* Alkaline-earth silicate wool fibres are safe to use, being “bio-soluble” or easily cleaned or expelled from the body. When inhaled, even at very high doses, they do not accumulate to any level capable of producing a serious adverse biological effect.

