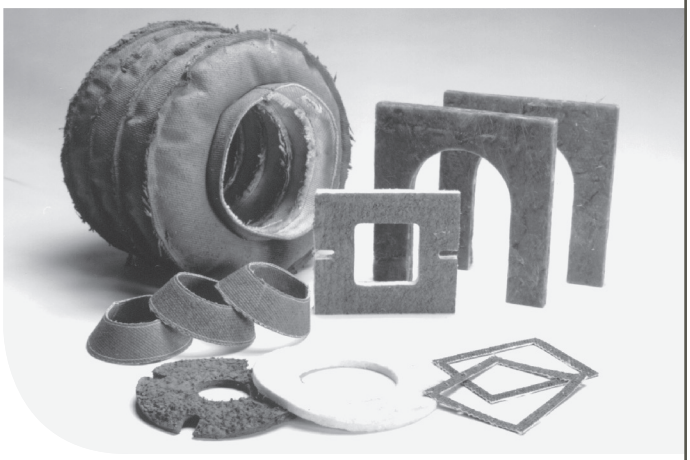
# FIBERSEAL PRE-CUT GASKETS

## HIGH TEMPERATURE APPLICATIONS



Pyrotek offers Fiberseal gaskets in many densities, thicknesses and heat tolerances.

### BENEFITS

- Low cost
- Precut to exact dimensions
- Molten aluminium resistant
- Refractory ceramic fibre and refractory ceramic fibre free materials available
- Non-refractory ceramic fibre expandable gaskets
- Available in densities and thicknesses to suit many project requirements

### APPLICATIONS

- Carbon bake seals
- Siphon seals
- Trough gaskets
- Furnace door seals
- Foot stool gaskets
- Boot seal
- Furnace linings

### PHYSICAL PROPERTIES

| Name | Description | Temperature Rating | Rating |
|---|---|---|---|
| C-1, ALISIFLEX™, Fibrefrax® | White in colour. A highly uniform refractory ceramic fibre paper with uniform thermal conductivity. | C-1: 1260°C (2300°F)<br>Others: 1430°C (2600°F) | C-1: 160–192 kg/m$^3$ (10–12 lb/ft$^3$)<br>Others: 64–128 kg/m$^3$ (4–8 lb/ft$^3$) |
| G-1, G-1F | Yellow to amber in colour. An inexpensive felt material which will not support combustion. F = formaldehyde free. | 650°C (1200°F) | 48 kg/m$^3$ (3 lb/ft$^3$) |
| G-2, G-2F | | | 32 kg/m$^3$ (2 lb/ft$^3$) |
| IR-3 | White-grey-tan in colour. A felt-like intumescent material which can expand up to 100% between 350–540°C (665–1000°F). Loss of 5–16% on ignition. | 650°C (1200°F) | 625 kg/m$^3$ (39 lb/ft$^3$) |
| IR-4 | White-gray-tan in colour. A felt-like intumescent material with low binder content and increased resiliency to maximize low temperature performance. It expands between the temperatures of 350–540°C (665–1000°F). | 960°C (1760°F) | ≥660 kg/m$^3$ (41 lb/ft$^3$) |
| IR-4-NC | White-gray-tan in colour. A felt-like intumescent material with low binder content and increased resiliency to maximize low temperature performance. It expands between the temperatures of 350–540°C (665–1000°F). NC = non-refractory ceramic. | 750°C (1382°F) | ≥800 kg/m$^3$ (50 lb/ft$^3$) |
| L4, L6, L8 | White in colour. A strong, durable, lightweight needled refractory ceramic fibre blanket. The product names indicate a weight of 4, 6 or 8 pounds. | 1427°C (2600°F) | 64, 96 and 128 kg/m$^3$ (4, 6 and 8 lb/ft$^3$) |

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| Name | Description | Temperature Rating | Rating |
|---|---|---|---|
| ALISIFLEX 1430, Fibrefrax Durablanket® Z | White in colour. Constructed from spun zirconia stabilized ceramic fibre. Ideal for furnace lining systems. Compatible with L4, L6 and L8. | 1400°C (2550°F) | 96 and 128 kg/m$^3$ (6 and 8 lb/ft$^3$) |
| M-6, M-8 | White in colour. A refractory ceramic fibre blanket material which contains no binders and is not changed by exposure to high temperatures. | 1260°C (2300°F) | 96 and 128 kg/m$^3$ (6 and 8 lb/ft$^3$) |
| ALISIFLEX, Fibrefrax Durablanket | Bluish-white in colour. A high strength refractory ceramic fibre material manufactured from cross-locking alumina-silicate fibres. Compatible with M-6 and M-8. | | |
| O-1 | Light yellow to white in colour. Consists of E-glass material, which is also called needlemat, needled fibreglass mat, tempmat, or continuous filament fibreglass blanket. Excellent vibration resistance. Not affected by 1.55 MPa (225 lb/in$^2$) steam. Has a tensile strength of approximately 0.07 MPa (10 lb/in$^2$). Used for port cover seals. | 550–650°C (1022–1200°F) | 75–150 kg/m$^3$ (9–11 lb/ft$^3$) |
| O-1C | Orange to red in colour. O-1 with a red silicone coating. Used for siphon, air collection systems, and carbon bake seals. Makes an excellent air-tight, abrasion-resistant seal. The flame-retardant silicone coating becomes brittle at temperatures above 315°C (600°F). | 650°C (1200°F) | 256 kg/m$^3$ (16 lb/ft$^3$) |
| SB-20, Pyrosil 2000, SB-21 | White in colour. A non-respirable ceramic free (refractory ceramic fibre free) needled insulating continuous-filament fibre blanket. High strength and abrasion resistant. Used for port cover seals. Isofrax and Insulfrax are non-refractory ceramic fibre*, alkaline-earth silicate materials. | 1100°C (2000°F) | 128, 144 and 170 kg/m$^3$ (8, 9 and 10 lb/ft$^3$) |
| Insulfrax®, PROMAGLAF™ 1200 | White in colour. A non-refractory ceramic fibre*, alkaline-earth silicate. Material is low thermal conductivity, thermal shock resistant, lightweight, flexible, low density, easy to work. Compatible with SB-21 and SF-607. | Insulfrax up to 1100°C (2012°F)<br><br>PROMAGLAF up to 1200°C (2192°F) | 64–160 kg/m$^3$ (4–10 lb/ft$^3$) |
| Isofrax®, PROMAGLAF 1250 | White to bluish white in colour. A non-refractory ceramic fibre*, alkaline-earth silicate. Material is low thermal conductivity, thermal shock resistant, light weight, chemical stability, high strength and flexibility. Compatible with SB-20. | Isofrax up to 1260°C (2300°F)<br><br>PROMAGLAF up to 1250°C (2282°F) | 96–128 kg/m$^3$ (6–8 lb/ft$^3$) |
| SIR Gasket | White in colour. A bio-soluble gasket seal with fibreglass covering. Constructed from a bio-soluble ceramic fibre core material with a woven e-glass yarn exterior surface. | Core: 1260°C (2300°F)<br><br>Cover: 593°C (1100°F) | 136 kg/m$^3$ (8.5 lb/ft$^3$) |
| SF-607, T67B | White in colour. A soluble amorphous wool. Does not contain refractory ceramic fibre (refractory ceramic fibre free). | 1000°C (1832°F) | 128 kg/m$^3$ (8 lb/ft$^3$) |
| * Alkaline-earth silicate wool fibres are safe to use, being "bio-soluble" or easily cleared 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. | | | |



*Note: The physical and chemical properties listed represent typical, average values obtained in accordance with accepted test methods and are subject to normal manufacturing variations. They are supplied as a technical service and are subject to change without notice.*

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*Product Type: 134*
*Commodity Code: 04004, 04008, 04012, 04021, 04022, 11002, 11006, 11011*