

Sinterflo® FMC

Fibre Mesh Composite Media for Custom Filter Elements

Sinterflo® FMC sintered fibre mesh composite material is specifically designed for the removal of particulate from challenging gaseous environments. The media provides an asymmetrical pore structure, designed to facilitate surface filtration capturing particulate on the outer surface for an 'out-to-in' flow design. This makes Sinterflo® FMC elements, which can be manufactured to a wide range of designs to suit each application, ideal for continuous on stream reverse jet cleaning applications and where optimum product recovery is required.

Porvair Filtration Group provides complete fabrication services for this material, including custom sized filter elements and blowback bags.

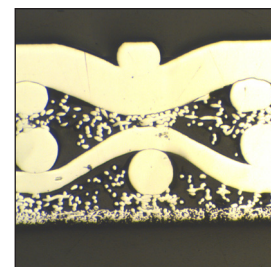
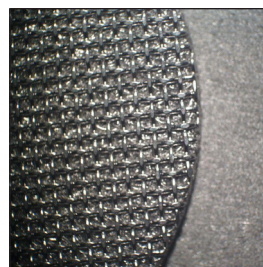
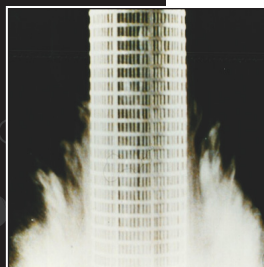
Sinterflo® FMC media is particularly suited to challenging environments where high operating temperatures reach up to 340°C, such as mineral, chemical and alternative energy processing.

This material is easily custom engineered to meet required specifications of materials, strength, flow requirements, thickness, micron rating and environment.



Features and Benefits

- **Resistant to high temperatures and corrosive environments**
Suitable for aggressive gas and liquid filtration applications.
- **Low capital cost**
Robust and self-supporting. Fabricated elements usually do not require complex and expensive support structures or joining strips.
- **Minimal maintenance costs**
Cartridges can be cleaned and reused, reducing replacement and maintenance costs.
- **Enhanced chemical resistance**
Can be constructed from a wide range of materials including 316L stainless steel, Hastelloy® and Inconel® 601.
- **Uniform pore distribution**
Provides high permeability combined with high efficiency.
- **Design and engineering versatility**
Easily custom engineered to meet required specifications of materials, strength, flow requirements, thickness, micron rating and environment.



Example Specification for 316L for a Rotary Kiln Application

Materials of Construction

316L Stainless Steel

Media Grades

FMC16

Gaseous Removal Efficiency¹

100% at 1.6 µm

Media Grades

FMC16

Air Permeability (bar (d)-m²/m³/hr)

5.16E-06

Thickness

1.17mm (0.05")

Maximum Operating Temperature

340°C (644°F)

Element Dimensions

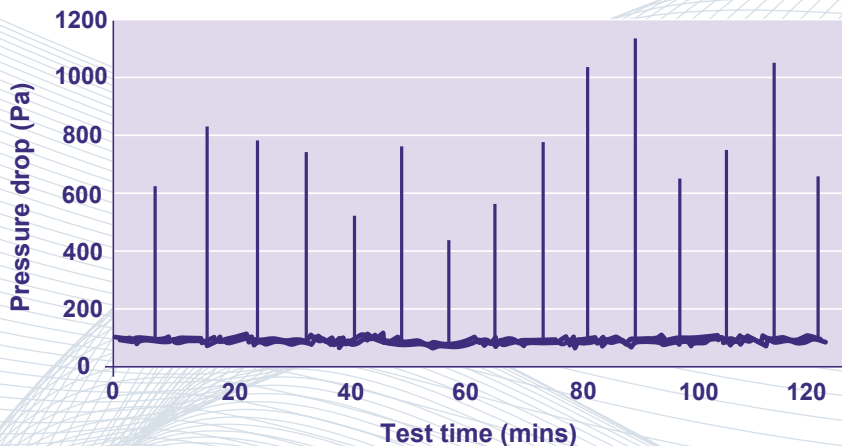
Diameter: 80mm to 120mm (3.15" to 4.72")
Length: Up to 4500mm (177")

Ordering

This is an example specification for this material.

This material is selected, engineered and manufactured specifically for each unique application. Please contact us to have your application reviewed for suitability and to have a fully costed design solution provided.

Rotary Kiln Filter FIA6401 Run 2



1. Fractional gaseous efficiency with SAEJ 726 test dust at 3.5cm/s velocity



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