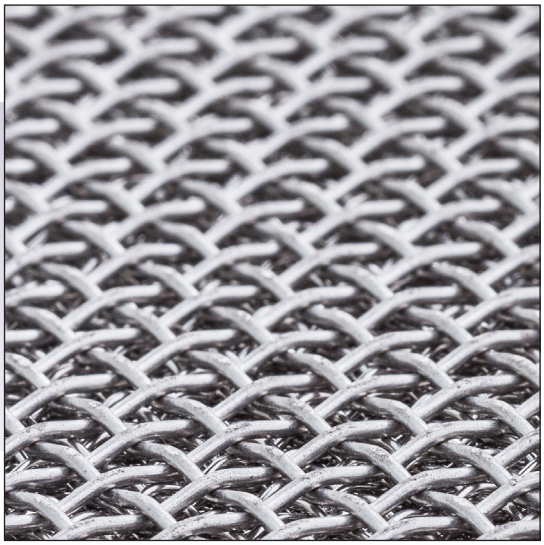
porvair filtration group

Sinterflo® MC Fluidising Media

For Powder Handling



Multi-layered, diffusion-bonded stainless steel mesh is available in 316/316L and other alloys. This precision fluidising media is available in both Lo Flow and Hi Flow rates to suit your application requirements.

Usually available in stock, for immediate delivery, the media is supplied as flat-panels, up to a seamless size of 100cm x 130cm (40" x 52") and in an unlimited size in butt-welded sheets.

We provide complete fabrication services for this material, including custom sizes, shapes, mounting holes and welding to end fittings or rings. We can also fabricate into tubes or fluidisation cones for hopper bottoms.

For fluidising applications where a tightly controlled efficiency rating is required, a precision fine filter mesh (down to 2 microns nominal) sintered to the fluidising media is available; effective in reducing particulate bypass, clogging and when fluidising gas is not flowing constantly.

Sinterflo® MC fluidising media is particularly suited to demanding applications where high operating temperatures of up to 540°C (1,000°F), increased chemical or high abrasion resistance is essential, such as silo discharge cones, fluidised reactors and fluidised dryers.

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

Typical Applications

- Fluidising beds
- Fluidised gravity conveyors
- Fluidised hoppers
- Gas spargers

Features and Benefits

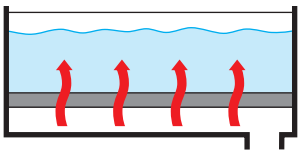
- **High operating temperatures**
- **Robust and self supporting**
  Fabricated shapes do not require complex and expensive support structures or joining strips.
- **Application and material versatility**
- **Enhanced chemical resistance**
  Can be constructed from a wide range of materials including 304 and 316/316L stainless steel, Hastelloy®, Inconel® and Monel®.
- **Cleanability**
  A wide range of cleaning methods can be used meaning the media can be sterilised for use in the food and pharmaceutical industries.
- **Abrasion resistance**
  Non-shedding media, highly resistant to mechanical abrasion.
- **Design and engineering versatility**
  Easily custom engineered to meet required specifications of materials, strength, flow requirements, thickness, micron rating and environment.

Ordering Information

For ordering information please contact a member of the sales team.

Typical Applications

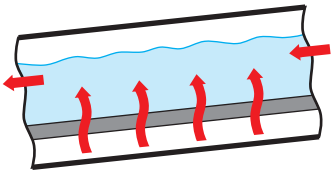
Fluidised Beds



Air is pumped through a horizontal or inclined section of Sinterflo® MC media, levitating a wide range of materials such as flour, cement, or paint particles. The air in this application can also be used for drying the product, and in some cases imparting additives.

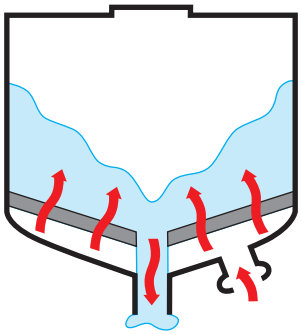
Fluidised Gravity Conveyors

A second flow of air is introduced at a 90 degree angle to the fluidising media to move the product forward for secondary processing (ie roasting) or transportation.



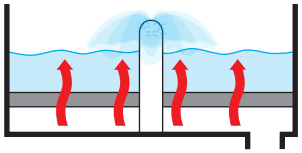
Fluidised Hoppers

Formed in to conical shapes, Sinterflo® MC media will prevent 'bridging' of particles/powders and increase the speed of discharge. This is especially critical in the unloading of railcars.



Gas Spargers

Submerged in a liquid environment, the air passed through Sinterflo® MC media creates a fine bubble field that increases oxygenation efficiency. This process is used in the electro-plating, fermentation and water treatment industries.



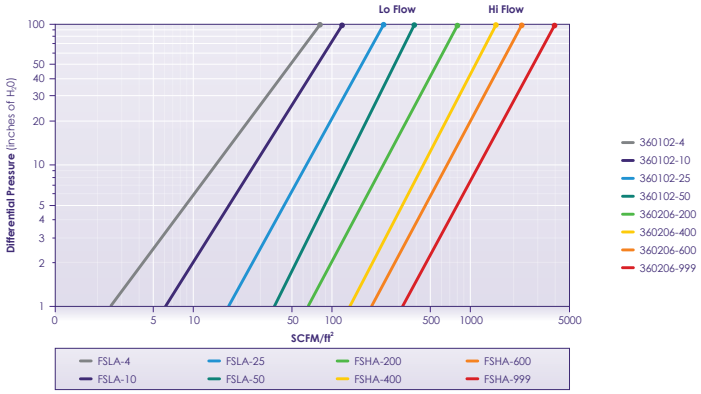
Specifications

FSLA Standard Lo Flow Fluidising Media Grades

Grade	Airflow (SCFM/ft²@2 in of H_2O)	Nominal Thickness mm (in)
FSLA-0005	5	1.37mm (0.054")
FSLA-0010	10	1.47mm (0.058")
FSLA-0025	25	1.57mm (0.062")
FSLA-0050	50	1.65mm (0.065")

FSHA Standard Hi Flow Fluidising Media Grades

Grade	Airflow (SCFM/ft²@6 in of H_2O)	Nominal Thickness mm (in)
FSHA-0200	200	1.02mm (0.040")
FSHA-0400	400	1.19mm (0.047")
FSHA-0600	600	1.32mm (0.052")
FSHA-1000	1000	1.63mm (0.064")



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