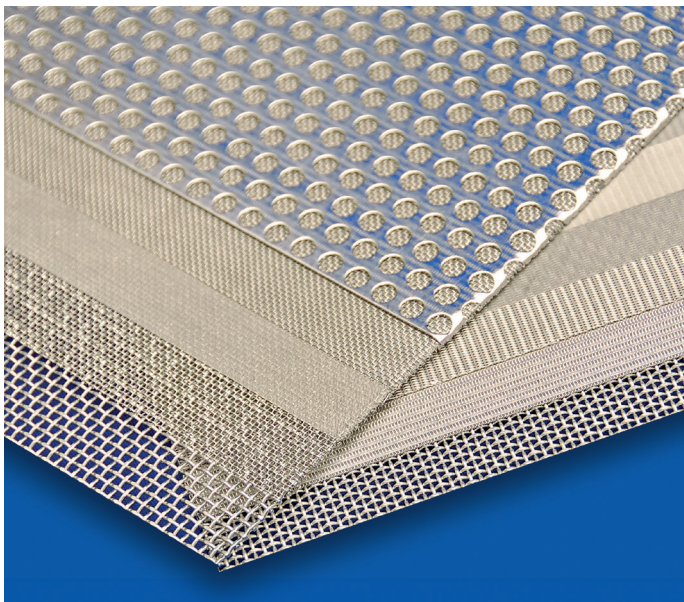




Sintered Woven Mesh Laminate

Sinterpore™



Generell concept of diffusion bonding (sintering)

We diffusion bond (sinter) mesh @ high temperatures, under vacuum and pressure. We produce a porous product with superior process characteristics and workability.

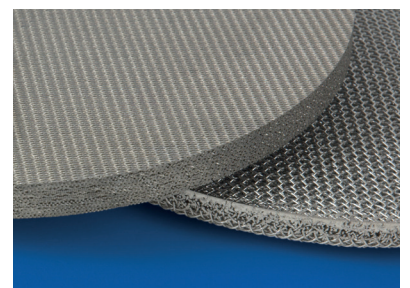
Properties

- Workability - layer design to achieve good forming and welding characteristics.
- 2 - 5 layers - designed to maximise flow @ required filtration rate.
- 4-100 layers - designed to filter and withstand high pressure differentials.

Different design concepts

High flow, high pressure, support, diffusion, workability

- High flow laminated sheet.
- High pressure laminated sheet.
- Pleatability – 1-3 layer support layers, often with fiber felt inlay.
- Filter/screen mesh support – 2-3 layer to achieve support of filter mesh.
- Diffusion and dispersion – up to 100 layers designed to achieve optimal performance.
- Mass, gas and fluid transport.
- Structural support – additional layers for integrity.
- Correct mesh layers determine ease of welding.



Square weaves:

plain, oblong, twilled, 5-heddle
µm – rating: 20, 25, 30, 50, 80, 100, ... 1000, 2000

Filter weaves:

plain dutch, twill dutch, Hi-flow, RDW, RDTW
µm – rating: 2, 5, 10, 15, 20, 25, 30, 50 ...

Spezial weaves:

broadcast, flex, ...

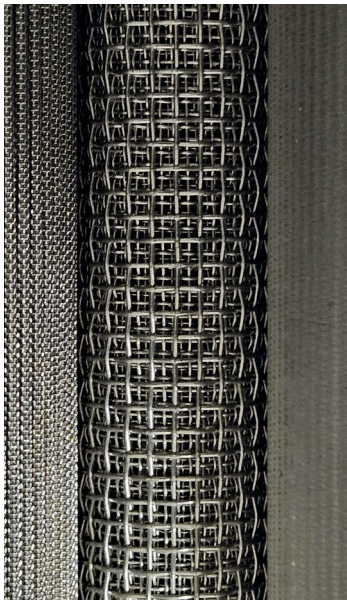
Filter mesh

We feature filter mesh and square opening wire cloth for our laminates to give you the required filtration rate from 2-2000 µm.

Materials

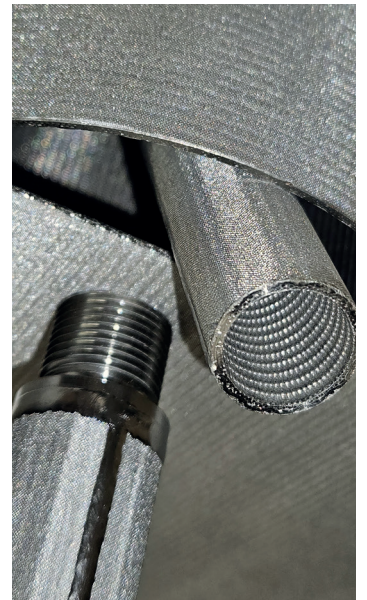
Our standard is 316L.

Other alloys like Ni, Ti and various CrNi alloys are available.



Typical Applications

- Filtration:
Liquid ... polymer, water, hydraulic, chemical ...
Gas ... hot gas, air, ...
- Screening ... especially ultrasonic
- Fluidizing
- Structural elements ... diffusion, dispersion
- Spark control



We can integrate other non woven materials into our sintered laminates, e.g. fiber felt for filtration or perforated sheet metal for additional support.

We custom design metallic fiber felt into your product.



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