

Porous Metal Filter Inc.

SinterPore™

Multi-Layered Sintered Laminate (MLS)

SinterPore™ media constructed of multiple layers of wire mesh are designed for precise controlled porosity, uniform pore sizes and distributions SinterPore™ MLS laminates are permanently bonded under precise diffusion bonding (sintering) conditions yielding robust monolithic materials used in a wide variety of engineering applications ranging from industrial filtration to aerospace transpiration cooling.

Standard products and most common uses:

- Standard 2 and 3 layer SinterPore™ Fluidizing laminates, with customer specific permeability flow rates, often used in bulk powder handling.
- Standard 5 layer SinterPore™ Filter Plate used in Pharmaceutical, Polymer, Liquid and Gas Filtration.

Applications:

- Oil and Gas
- Pharmaceutical
- Aerospace
- Polymer
- Chemical Process
- Bulk Powder Handling (fluidization)
- Industrial Filtration

Features and Benefits:

- Heat and wear resistance
- Cleanability and reusability
- Fixed Pore Geometry
- Robust Non-Compressible Media

Ideal Replacement in:

- Nutsche Filters
- Filter Dryers
- Plate Filter

Specifications:

- Standard Sheet Sizes: 18"x48", 24"x48". Custom sizes available upon request. Maximum laminate size without welding is 24"x60" (larger sheets available with welds, maximum panel width with welds 120").
- Standard Alloys: 304, 304L, 316, 316L, Alloy20 (also available in Inconel 600 and 625, Monel, and Hastalloy upon request).

Nominal Micron	filter mesh	Absolute Micron	thickness + /-.003"	per meability S CFM/1 PSI	PMF Part Number	Type	Air Flow S CFM/ft ² @ 1" H ₂ O W.C.	Nominal Thickness + /-.003"
2	325x2300	5	0.066"	185	SinterPore Lo-Perm Media			
5	200x1400	10	0.066"	375	F-PMF-316L-SP-LF-05	SP-LF-5	5.0	0.054"
10	165x1400	15	0.066"	465	F-PMF-316L-SP-LF-10	SP-LF-10	10.0	0.058"
20	165x800	20	0.066"	545	F-PMF-316L-SP-LF-25	SP-LF-25	25.0	0.061"
25	80x700	35	0.066"	715	SinterPore Hi-Perm Media			
40	325x325	43	0.066"	715	F-PMF-316L-SP-HF-50	SP-HF-50	50.0	0.041"
60	250x250	61	0.066"	715	F-PMF-316L-SP-HF-100	SP-HF-100	100.0	0.044"
80	200x200	74	0.066"	715	F-PMF-316L-SP-HF-200	SP-HF-200	200.0	0.050"
100	150x150	104	0.066"	715	F-PMF-316L-SP-HF-400	SP-HF-400	400.0	0.060"



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