



# SAND CONTROL SCREENS

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FILTRATION SOLUTIONS FOR THE OIL AND GAS INDUSTRY



# PROPER SAND MANAGEMENT BEGINS WITH PROPER SCREEN SELECTION.

## PMF'S *SINTERPORE*® PREMIUM METAL MESH SAND CONTROL SCREENS HAVE BECOME A STANDARD STAPLE IN THE OIL FIELD.

PMF's unique screen design incorporates multiple diffusion bonded layers of woven metal mesh, creating a single monolithic sand control screen that is robust and has enhanced filtration specific characteristics - the right solution to any sand control problem.

PMF's *SINTERPORE*® sand control screens typically range from 2-layer to 4-layer diffusion-bonded Premium cartridges.

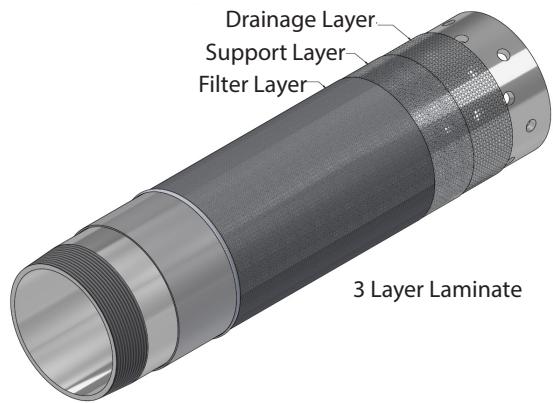
The *SINTERPORE*® cartridges are fit for purpose for standalone or gravel pack applications as well as for open-hole and cased-hole environments. PMF's optimal screen designs are critical in meeting your specific application and well conditions.



## *SINTERPORE*® PREMIUM CLASSIC CARTRIDGES

### FEATURES AND BENEFITS:

- Superior permeability compared to other screens.
- Precise woven metal mesh laminates achieve optimal filtration, uniform flow, and mechanical strength.
- Diffusion bonded (sintered) designs result in a robust monolithic structure that provides fixed pore geometry.
- Fully annealed alloy provides superior corrosion protection.
- Standard micron ratings from 60 µm to 1,000 µm (custom upon request).
- Standard alloys include 316L SS and Alloy 20.
- Available in 2 to 4 layers depending on requirements

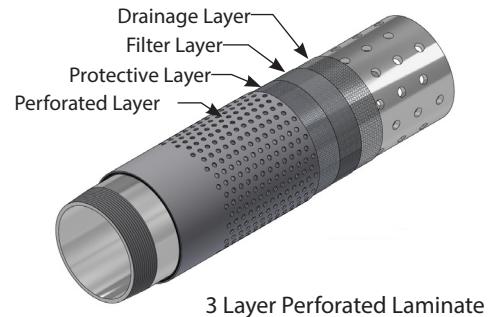


Laminate Part Number	Nominal Micron Rating	Number of Layers	Thickness (inches)	Max Pore Size	Permeability (Darcy) 1	Nominal Air Permeability (SCFM/SF @ 1" W.C.) 1	Porosity (%)	Tensile
F-PMF-316L-60-DS3	60	3	0.072	82	286	410	58	550/650
F-PMF-316L-125-DS3	125	3	0.074	164	359	500	56	614/789
F-PMF-316L-175-SS4	175	4	0.074	210	538	750	58	749/854
F-PMF-316L-175-DS2	175	2	0.060	233	320	550	54	550/650
F-PMF-316L-250-SS4	250	4	0.074	286	610	850	58	681/764
F-PMF-316L-250-DS2	250	2	0.075	300	382	525	52	681/764
F-PMF-316L-400-SS4	400	4	0.072	440	593	850	57	681/764

# SINTERPORE® PREMIUM PRO CARTRIDGES

## FEATURES AND BENEFITS

- Our unique design eliminates all welds within the filter media.
- Easy installation - the cartridge can be slid and welded on the base pipe.
- The diffusion bonded (sintered) design incorporates an integrated outer shroud, 2 or 3 mesh layers, and an optional inner shroud for maximum strength.
- High flow screen designs available that allow for superior uniform flow.
- Available in a wide range of micron ratings from 60 µm to 1,000 µm (custom upon request).
- Standard alloys for control filter layer include 316L SS and Alloy 20.
- Standard alloys for shroud material include 304SS, 316SS, 304L SS, and 316L SS.



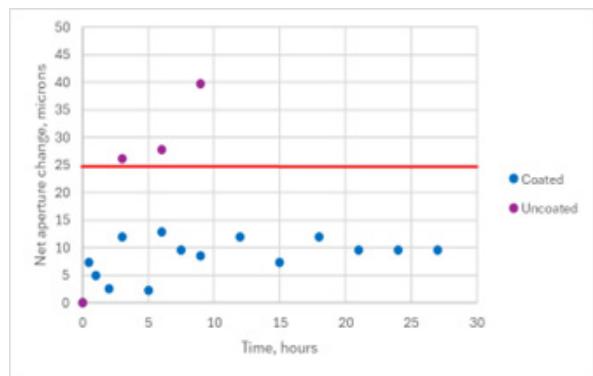
# SINTERPORE® HD EROSION RESISTANT CARTRIDGES

## FEATURES AND BENEFITS:

Diffusion-bonded (sintered) construction creates a monolithic, robust structure with fixed pore geometry for reliable performance.

Advanced coating technology delivers up to 8x greater erosion resistance compared to conventional screens with average coating thickness of 18 microns resulting in minimal impact on pore size.

Standard micron ratings range from 60 µm to 1,000 µm, with custom options upon request.



Available in standard alloys including 316L stainless steel and Alloy 20.

Offered in 2 to 4-layer configurations based on application requirements.

Nominal Micron	Filter Mesh	Weave Type	Thickness +/- 0.003" (inches)	Conductivity (Kd/mm)	Permeability (Darcy)	Permeability (SCFM/SF @ 1" W.C.)
95	30 x 150	PDW	0.020	2.48	126	650
125	22 x 180	PDW	0.025	3.24	206	850
125	24 x 110	PDW	0.034	2.29	198	600
125	20 x 216	TDW	0.032	0.76	62	200
150	22 x 220	TDW	0.036	1.14	105	300
175	18 x 140	PDW	0.024	3.24	198	850
175	18 x 210	TDW	0.037	1.34	125	350
200	16 x 80	PDW	0.037	2.86	269	750
200	14 x 180	TDW	0.043	1.14	125	300
220	16 x 100	PDW	0.032	3.24	264	850
250	12 x 145	TDW	0.051	1.34	173	350
250	14 x 88	PDW	0.040	3.05	310	800
280	132 x 16	RDTW	0.046	2.67	312	700
300	12 x 64	PDW	0.050	3.62	460	950

PDW = Plain Dutch Weave

TDW = Twill Dutch Weave

RDTW = Reverse Dutch Twill Weave

# THRU TUBING PREMIUM CLASSIC AND PREMIUM PRO

## FEATURES AND BENEFITS:

- Premium Classic and Premium Pro designs are both great options for thru tubing.
- Standard and highly customizable designs.
- Economical designs to fit your work over budget.
- Premium Pro thru tubing offers the smallest OD package in the industry.
- Maximum flow rates for difficult sand conditions.

Pipe	Tube ID (inches)	Premium Classic Max OD (inches) dependent on no. of layers	Premium Pro Max OD (inches) dependent on no. of layers
1.050	1.150	1.388	1.536
1.250	1.370	1.608	1.756
1.625	1.760	1.998	2.146
1.875	1.960	2.198	2.346
2.063	2.130	2.368	2.516
2.375	2.470	2.708	2.856
2.875	2.960	3.198	3.346

Note: all units noted in inches



Porous Metal Filters, Inc (PMF) is part of the USA division of the Dorstener Group. Dorstener Drahtwerke has been in business for 100 years and is an industry leader in wire and wire mesh products. The Dorstener Group has locations throughout Europe, North America, South America and Asia, specializing in high performance wire, wire cloth, welded mesh, and metallic filtration products.



**Porous Metal Filters, Inc.**  
**19994 Hickory Twig Way, Spring TX, 77388**

**Toll Free: 866-288-2522 Tel: 281-719-1352 Fax: 281-719-1351**

**[www.pmfilter.net](http://www.pmfilter.net)**

**[sales@pmfilter.net](mailto:sales@pmfilter.net)**