



FILTALLOY TECHNOLOGY



SINTERED PLATE FILTER



ABOUT US

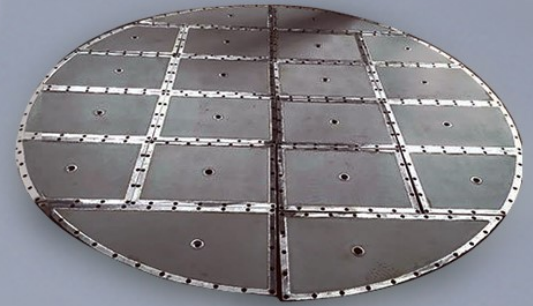
Fitalloy Technology Limited

Fitalloy is an advanced metal filter elements manufacturer & supplier, with more than 20 years of experience. We have introduced the state of art machines and employed experienced technicians to supply high-performance, innovative materials, and solutions for applications in filtration and separation. Our products include:

- | Sintered Mesh Filter
- | Sintered Plate Filter
- | Pleated Metal Filter
- | Sintered Fiber Felt
- | Polymer Filter Elements
- | Polymer Leaf Disc
- | Polymer Extruder Screen
- | Sintered Powder Filter
- | Asymmetric Sintered Metal Filter
- | Hot Gas Filtration Elements
- | Filter Leaf
- | SPL Filter

Our products are widely used in numerous industries including aerospace, oil and gas, petrochemical, water, mine, polymer, food & beverage, automotive, and many other filtration and separation industries. With so many applications, we have built the R&D, design, machining, sales, and quality control departments. With the design and tailored solutions, we then translate them into high-level products. And our team has been learning about the forefront of filtration technology from industrial leading companies. Here customers could get high-quality products at an economic price!

SINTERED PLATE FILTER



The sintered metal filter is constructed of sintered metal wire cloth or sintered powder disc. With ultra-high purity and high strength, it's ideal material for Agitated nutsche filter/dryer (ANF or ANFD) and fluidization bed (FBD). When blowing into the gas to suspend the solid particles, it makes the solid particles dry.

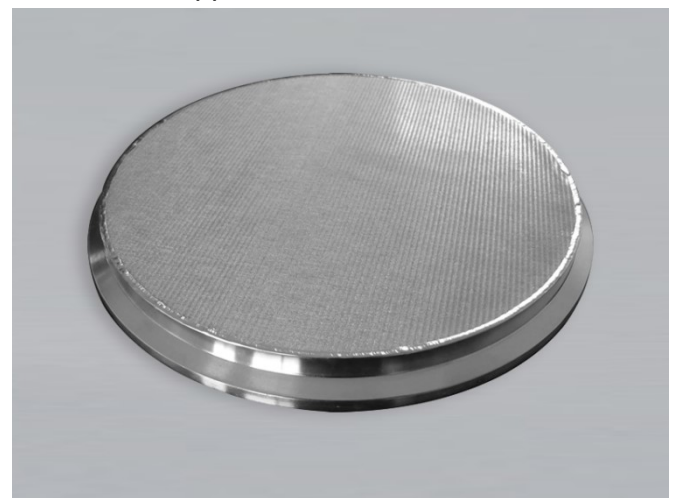
Features:

- ✓ Robust for high-pressure vessel
- ✓ Uniform and stable filtration
- ✓ Easy to assemble
- ✓ Easy to clean
- ✓ Long life-span: 20,000+ hours



Sintered Filter Plate

Application: fine chemical



Sintered Filter Disc

Application: pharmaceutical

MATERIAL	Standard SS316L, other option SS316Ti, SS 904L, Duplex, Titanium and Alloy C22
FILTRATION	1-300um
TEMPERATURE	-200~600℃
STRUCTURE	one whole piece or constructed by several parts, fixed by threads.



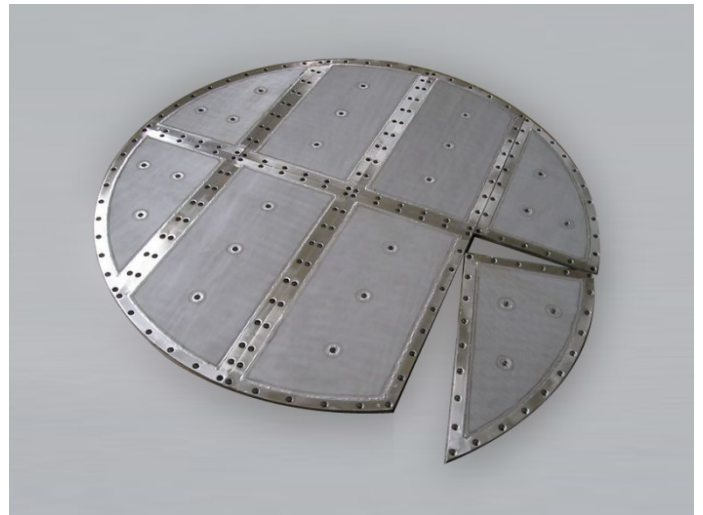
Single Piece Filter Plate
Without outer frame



ANF Sintered Filter Plate
For pigment&pharmaceutical filed



Sintered Filter Plate
For Nutsche Filter



ANFD Sintered Filter Plate
Application: fine chemical



Sintered Plate Filter
In Ring Shape



Cone Fluidized Bed Filter
With welded perforated layer

Application of Sintered Filter Plate 2-1	Hydroxides	Metal powders	Metal oxides, mixed oxides	Pigments, silicates, aluminium silicates	Pigments: carbon black, others
Chemical Process					
Oxidation		√		√	√
Reduction (CO, H₂)	√		√	√	
Gas-gas reactions on fluidized catalyst			√		
Gas-solid reactions with gas or solid generation	√	√	√	√	√
Calcining, Tempering	√	√	√	√	√
Chemical coating of supporting material		√	√	√	√
Surface treatment, passivation, activation		√	√	√	√
Physical Process					
Cooling and drying	√	√	√	√	√

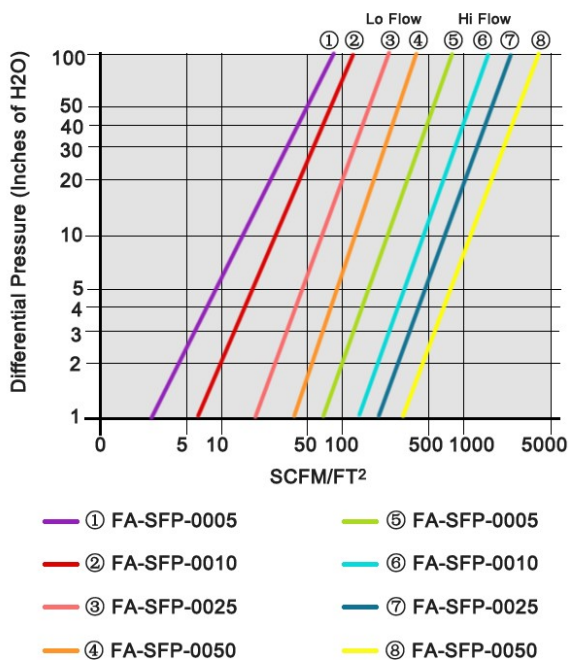
Application of Sintered Filter Plate 2-2	Organic substances	Catalysts	Silicon, silicon compounds	Ores, salts: sulfate, carbonates, chlorides, oxalates
Chemical Process				
Oxidation	√	√		
Reduction (CO, H₂)	√	√	√	√
Gas-gas reactions on fluidized catalyst	√			
Gas-solid reactions with gas or solid generation	√	√	√	√
Calcining, Tempering	√	√		√
Chemical coating of supporting material	√	√		
Surface treatment, passivation, activation	√	√		
Physical Process				
Cooling and drying	√	√	√	

The Specification of High Flow Fluidizing Media

Item	Air flow		Nominal thickness	
	CFM/ft ² @ 2inches water	m ³ /m ² @50.8mm water column	mm	inch
FA-SFP-0005	5	1.524	1.37	0.054
FA-SFP-0010	10	3.048	1.47	0.058
FA-SFP-0025	25	7.62	1.57	0.062
FA-SFP-0050	50	15.24	1.65	0.065

The Specification of Low Flow Fluidizing Media

Item	Air flow		Nominal thickness	
	CFM/ft ² @ 2inches water	m ³ /m ² @50.8mm water column	mm	inch
FA-SFP-0200	200	1.524	1.02	0.04
FA-SFP-0400	400	3.048	1.19	0.047
FA-SFP-0600	600	7.62	1.32	0.052
FA-SFP-1000	1000	15.24	1.63	0.064



Flow Rae Table



Application: Agitated nutsche filter/dryer (ANF or ANFD) for chemical, pharmaceutical powder

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