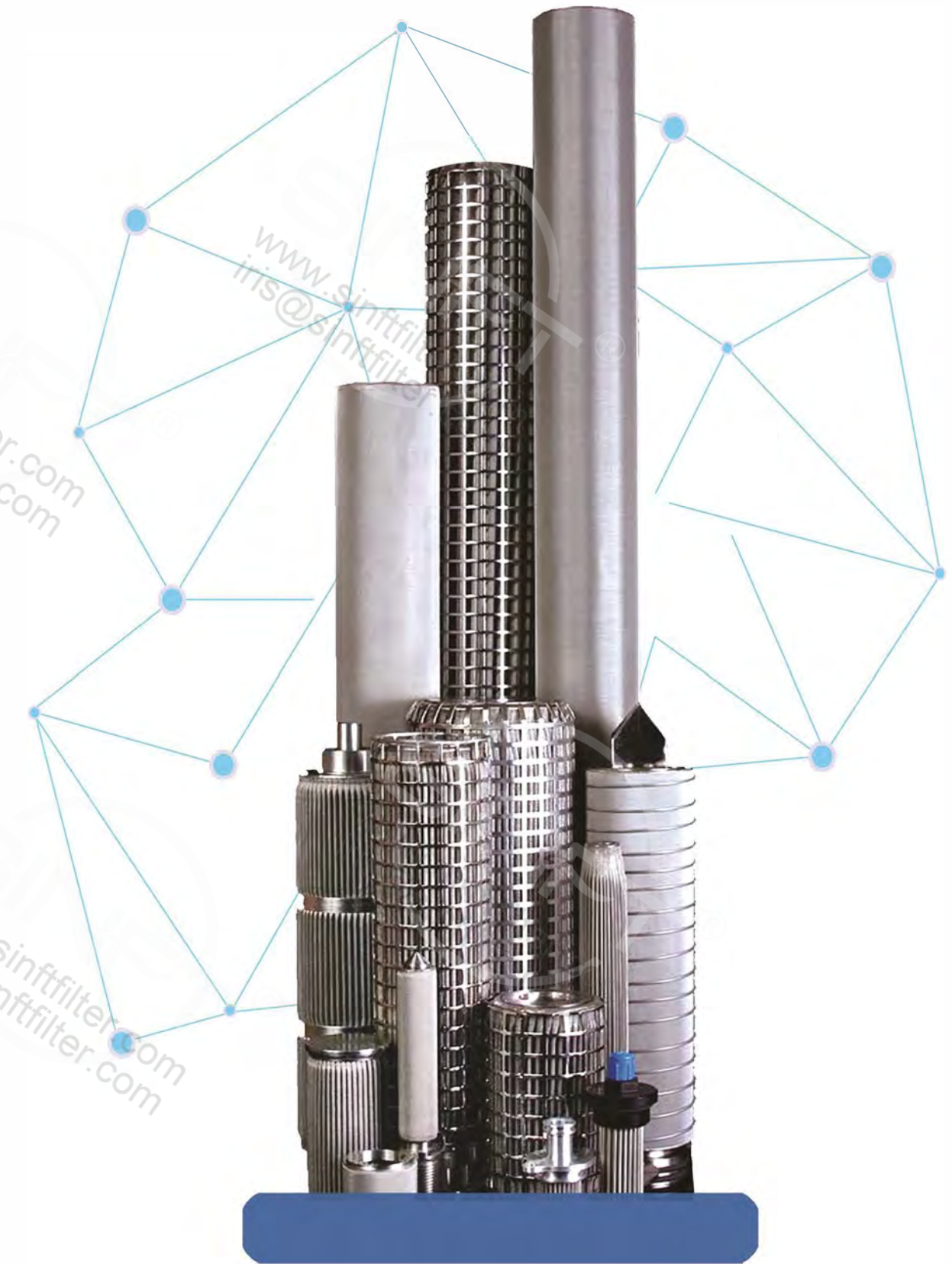


SINFTFILTER



Sintered Metal Filter Cartridges and Elements

SINFTFILTER

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About US

BRIEF INTRODUCTION OF ENTERPRISE

History

SINFT is located in Shijiazhuang City, Hebei Province, covering 26,658 m². We was established in 2007, Now we has become an excellent manufacturer of filtration products with 16 years of experience accumulation.

PRODUCT CATEGORY:

- High Pressure Filter Elements
- Sintered Metal Filter Cartridges
- Hydraulic Filter Elements
- Stainless Steel Filter Elements
- Pipeline Basket Strainer (simplex&Duplex)
- Replacement filter elements for over 200brands

VISION & MISSION

SINFT vision: High-quality, future-proof products and solutions with customer service for any need at any time. Everything we do starts with a specific need which represents our true mission. It drives us to continuously improve and build trust with our customers.

PRODUCTION

SINFT produces high quality accessories and spare parts compatible with major brands in the world market with much competitive prices. We use advanced, professional, automated and precise equipment to escort the orders, and our professional quality department from the operator to the precise control system of the machine which all ensure the safety and reliability of the quality.

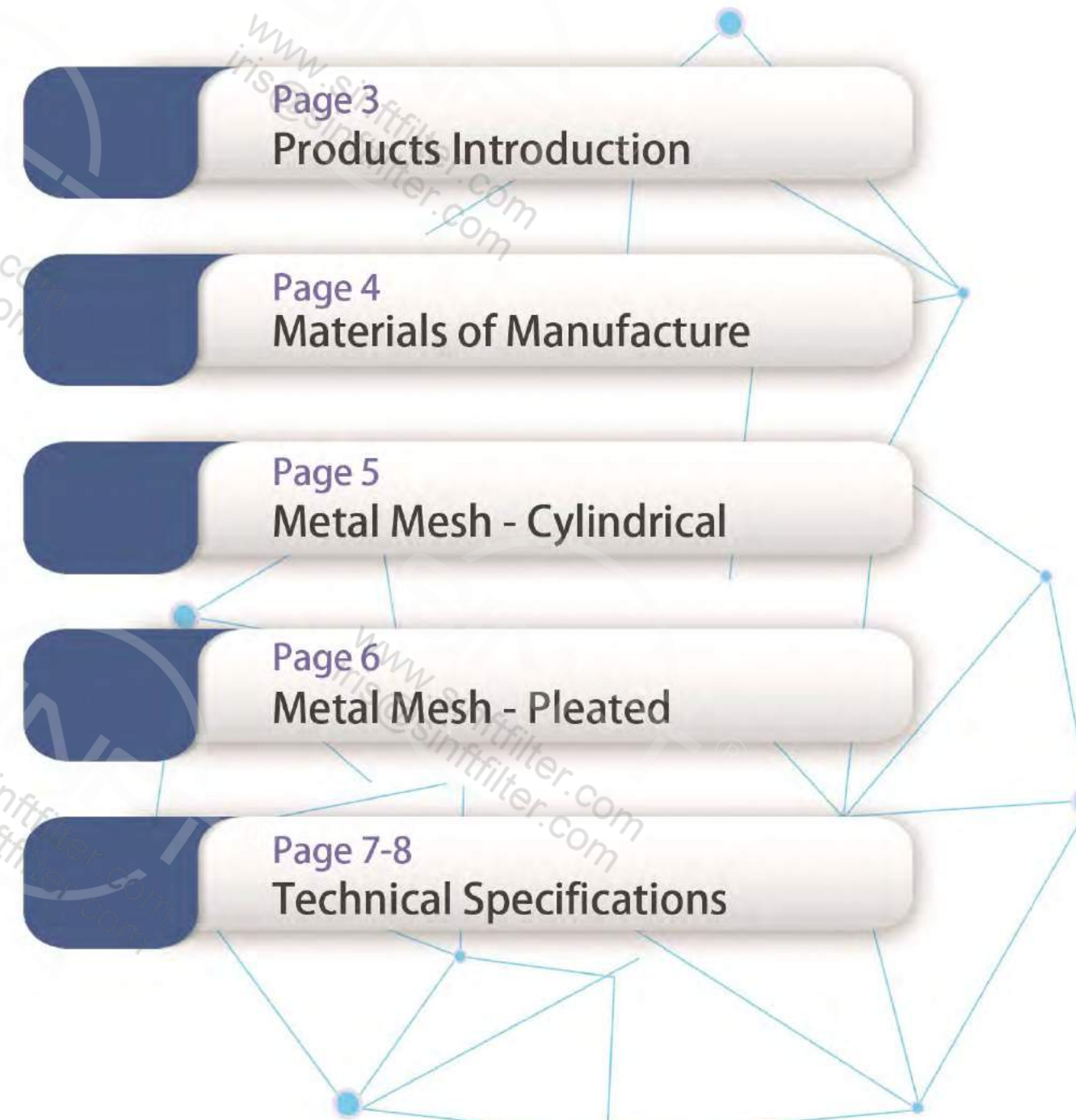
CERTIFICATION

SINFT certifications: ISO 9001:2015,CE,



Sintered Metal Filter Cartridges and Elements

CONTENT



PRODUCTS INTRODUCTION

Sinft Filter Company is an international leader in the development and supply of materials and products for applications in filtration and separation. We have a dedicated team of scientists, engineers, production and quality professionals working towards the best possible filtration solutions for our customers. We have a fully equipped test house and laboratory, and our experienced design engineers use the latest AutoCAD technology, with 3D solid modelling, integrated with a finite element analysis system to give full structural assurance capability.



Applications

Our expertise is wide and varied spanning over 30 years, with products used in markets such as:

- Aerospace and Defense
- Nuclear
- Energy
- Process
- Food and Beverage
- Printing
- Water Treatment
- Pharmaceutical
- Biosciences and Scientific
- Porous Media and Materials

MATERIALS OF MANUFACTURE



Sintered mesh is generally constructed from multiple layers of stainless steel woven mesh after special laminate pressing and vacuum sintering. It can be fabricated into filter elements in various shapes, such as round, cylindrical, conical, and pleated shapes. Sintered mesh has uniform pores and is not easy to deform, thus delivering a stable filter rating and easy-to-clean property. Filter rating: 1 – 200 μm

Features

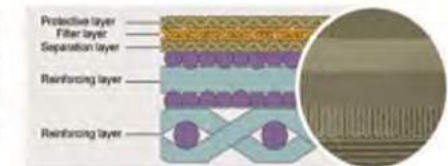
- High-temperature sintering, high strength, and durable
- Corrosion resistance and up to 480 ° C high-temperature resistance.
- Stable filter rating
- Equipped with 2 protection layers, not easy to deform
- Stable opening size
- Can be cut, bent, and welded

High-Temperature Capability

Material	Atmospheres	
	Oxidizing	Reducing or Neutral
316L SS	750°F	1000°F
310 SS	1100°F	1500°F
Inconel 600	1100°F	1500°F
Hastelloy X	1450°F	1700°F

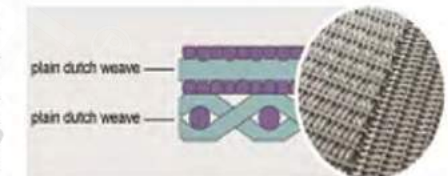
STANDARD 5-LAYER SINTERED MESH

A standard and the most widely used sintered mesh. It is a combination of 5 layers of wire mesh with different openings and mesh counts after laminating and vacuum sintering. We can also offer 6-layer sintered mesh that adds a 8-mesh or a 12-mesh square weave mesh on the 5-layer sintered mesh to offer higher mechanical strength and compression strength.



ALL SQUARE WEAVE SINTERED MESH

It is made of multiple layers of square plain weave wire mesh after sintering. Square weave wire mesh has square hole opening and high open area rate, so this sintered mesh has excellent permeability, low resistance, high flow rate, etc. It is widely used in powder handling, drying and cooling and other fields with functional requirements, for example, acting as sintered mesh candle filter in chemical filtration applications.



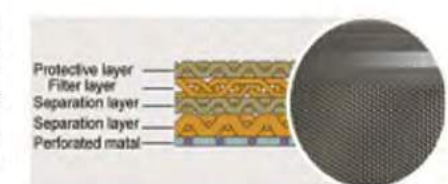
ALL DUTCH WEAVE SINTERED MESH

It is constructed of two or three layers of plain Dutch weave wire mesh after laminating and sintering. It has uniform opening distribution and stable permeability and is widely used in fluidized bed, powder handling, air drying, cooling, etc.



PERFORATED METAL SINTERED MESH

It is fabricated by sintering multiple layers of square weave mesh (or Dutch weave mesh) and stainless steel perforated metal (round or square pattern) together. As a result, it combines the good permeability of woven mesh and the excellent mechanical strength of perforated mesh. In addition, it has great backwashing effect and low pressure lose and is widely used in mining, pharmaceuticals, grain screening, etc



Sintered Metal Mesh - Cylindrical Type

ADVANTAGES

The Cylindrical Type demonstrates good permeability, high tensile strength and is available from single wrap media designs through to complex multi-layered structures in pleated constructions to optimise the area available. These meshes can be manufactured in diffusion bonded versions to increase performance security of pore shape and size and have the broadest range of pore sizes of any filter media type.

Sinft Filter precision woven meshes are manufactured in various types of weaves. Plain square weave is available for simple sieving duties through various weave patterns (Reverse Plain Dutch, Broad Mesh Twill and Single Plain Weave). Dutch Twill Weave is provided for the most comprehensive selection of surface filtration duties.



Typical Applications

- Catalyst recovery and retention
- Gasification and chemical production
- Vent filters
- Agrochemical
- Steam filtration (culinary and process)-
- Pharmaceutical powder recovery
- Polymer melt

Features and Benefits

- Precise aperture in size and shape
- Good permeability
- All welded, robust construction Available in the broadest range of pore sizes of any filter media type
 - Smooth surface variant preferable for back-wash applications
 - Available in 316L stainless steel as standard with other alloys such as 304L stainless steel, Inconel, Hastelloy and Monel on request.

Sintered Metal Mesh - Pleated Type

ADVANTAGES

Pleated metal mesh filter cartridges demonstrate good permeability, high tensile strength and are available from single wrap designs through to complex multi-layered structures in pleated constructions to optimise the area available. These meshes can be manufactured in diffusion bonded versions to increase performance security of pore shape and size and have the broadest range of pore sizes of any filter media type.

Sintered metal mesh M is available in 316L stainless steel as standard with other alloys such as 304L stainless steel, Inconel and Monel on request.



Typical Applications

- Catalyst recovery and retention
- Gasification and chemical production
- Vent filters
- Agrochemical
- Steam filtration (culinary and process)-
- Pharmaceutical powder recovery
- Polymer melt

Features and Benefits

- Precise aperture in size and shape
- Good permeability
- All welded, robust construction
- Pleated media offers higher filtration area per cartridge
 - Available in the broadest range of pore sizes of any filter media type
 - Smooth surface variant preferable for back-wash applications

Technical Specifications for Cylindrical and Pleated Type

Part 1

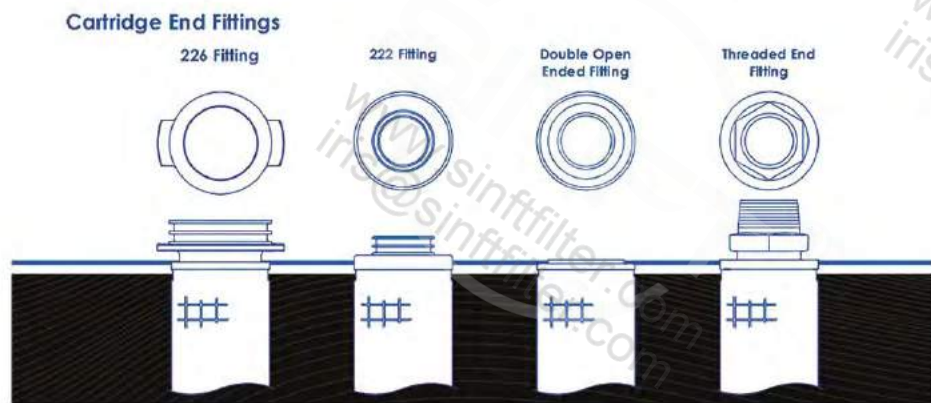
Cartridge Type

- P Pleated
- C Cylindrical

Part 2

End Fitting

- 226 fitting
- 222 fitting
- Double open ended fitting
- 1' NPT
- 1.5" NPT
- 12" NPT



Part 3

Cartridge Dimensions*

- Diameter: 66mm (2.6") standard
- Length: 05: 125mm (5")
- 10: 250mm (10")
- 20: 498mm (20")
- 30: 745mm (30")
- 40: 1012mm (40")

* Other diameters and lengths available on request.

Part 4

Effective Filtration Area

0.13m² (1.40ft²) per 250mm (10") cartridge

Part 5

Gaskets and O-Rings*

EPDM as standard. Chemraz , nitrile, PTFE, silicone, Viton, FEP coated EPDM, FEP coated silicone, FEP coated Viton available on request or by process selection.

* FDA approved seals are available.

Part 6

Typical Maximum Differential Pressure* (all lengths)

Normal flow direction: Up to 25bar (363psi)

Reverse flow direction: 3bar (44psi)

* Grade dependant.

Part 7

Operating Temperature

Maximum continuous:

From -195° C (-319° F) to 340° C (644° F) seal limiting

From -269° C (-452° F) to 1000° C (1832° F) alloy limiting

Part 8

Micron Rating (micron code)	Liquid Rating*(um) (98.00% efficiency)	Liquid Rating*(um) (99.90% efficiency)	Gas Rating (um) (99.9% Efficiency)
3(0003)	3	10	2
5(0005)	5	18	13
10 (0010)	10	25	18
15 (0015)	15	35	25
25 (0025)	25	30	20
30 (0030)	30	40	30
35 (0035)	35	50	45
50(0050)	50	70	60
70 (0070)	70	110	100

*Hard spherical particle maximum passed.

