

# SUPAMESH

AMAZON

## STAINLESS STEEL FILTER CARTRIDGES

**SUPAMESH** stainless steel filter cartridges are for use in a wide range of applications and industries, suitable for use in both liquids and gases.

All **SUPAMESH** cartridges are manufactured from 316L stainless steel throughout. They are available in both plain cylindrical and pleated configurations, using the very latest in high specification medias. The plain cylindrical design provides a simple sleeve of filter medium supported by a central core. The pleated design uses pleated media, again supported by the central support core, this time providing over twice the effective filtration area of the cylindrical cartridge. In both designs, the construction method used is the latest, ultra clean TiG and plasma welding system.

This method of construction guarantees cartridge integrity, eliminating the risk of bypass and the presence of extractables derived from any bonding agents.

### Unique Construction

Modular assembly up to 745mm (30") long  
316L Stainless steel TiG welded for ultra clean assembly

- **SS Grade** - Nominal rated Precision woven mesh, available 5 – 840µm
- **SF Grade** - Absolute rated Sintered metal fibre, available 3 – 60µm
- Optional backwash cage for enhanced mechanical strength
- **SP Grade** - Sintered powder media, available 6-60µm

### Product Features

**SUPAMESH** cartridges are available with many standard industrial end cap configurations and seal materials.

They are available with optional outer guards for reverse flow or backwashing to enhance their superior robust design.

The method of construction and materials used allow for use from -150°C to +300°C and up to 25 bar differential pressure in normal flow direction.



## SUPAMESH FEATURES AND BENEFITS

- All 316L stainless steel construction for wide chemical resistance
- Individually marked with full product code
- Choice of precision woven wire, sintered powder media and sintered metal fibre media
- Wide range of ratings from 3µm through to 840µm
- TiG welded construction for all grades
- Full material traceability
- Suitable for use from - 150°C to 300°C
- No adhesives or bonding agents used

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## TECHNICAL DATA

### Dimensions

Outside Diameter:	66mm
Core Diameter:	27mm
Typical Surface Area: (per 10")	Cylindrical: 0.05m <sup>2</sup> Pleated: 0.13m <sup>2</sup>
Length:	See ordering guide

### Maximum Operating Conditions

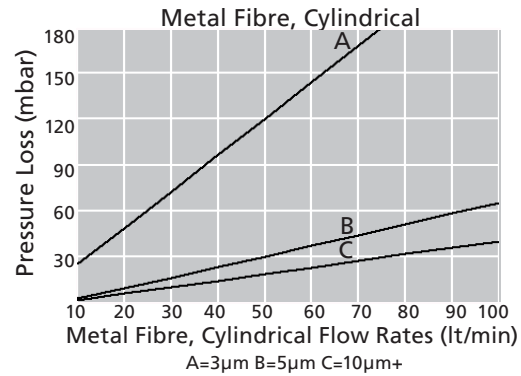
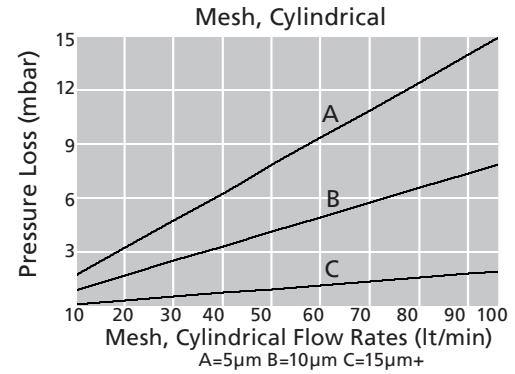
Temperature: 300°C

Recommended Maximum Differential Pressure:

Forward Flow: Cylindrical: 15 bar  
Pleated: 25 Bar

Reverse Flow: 3 Bar with backflush support

The flow rate curves are for 10" plain cylindrical elements. To gain the clean pressure loss for all pleated elements, multiply the cylindrical element clean loss by 0.4.



## ORDERING GUIDE

05	○ ○ ○ ○ ○	○	○ ○ ○ ○ ○	-	○ ○ ○ ○ ○	○	○	○	A
MEDIA/CORE	TYPE	MICRON			LENGTH	END CAP	SEAL		
SS - 316 Stainless Steel mesh	C - Cylindrical	SS - Mesh	SF - Fibre	SP - Powder	09 - 247	0 - Code 0	B - Buna		
SF - 316 Stainless metal fibre	B - Cylindrical + Backflush support	005 - 5µm	003 - 3µm	006 - 6µm	19 - 498	2 - Code 2	E - EPDM		
SP - Sintered powder*1	P - Pleated + support	010 - 10	005 - 5	010 - 10	29 - 745	3 - Code 3	F - FEP/Silicone (SOE Only)		
		015 - 15	010 - 10	015 - 15		7 - Code 7	S - Silicone		
		020 - 20	015 - 15	030 - 30		8 - Code 8	T - PTFE (DOE Only)		
		040 - 40	020 - 20	060 - 60			V - Viton		
		070 - 70	030 - 30						
		100 - 100	040 - 40						
		250 - 250	060 - 60						
		450 - 450							
		840 - 840							

Example: 05SFC005-090EA = Cylindrical Stainless metal fibre, 5.0µm rating, single length 10" long (247mm), code 0 connections with EPDM seal.  
\*1 Cylindrical Only

## INDUSTRIES AND APPLICATIONS

<b>Food and Beverage</b>	• Bottled water, Beers, Wines, Flavours
<b>Pharmaceuticals</b>	• Membrane pre-filtration
<b>Fine Chemicals</b>	• Polymers, Acids, Bases, Solvents
<b>Cosmetics</b>	• Alcohol, Creams, Lotions, Waxes, Oil based solution
<b>Water Treatment</b>	• Potable water, Resin trap, Pre UV, Membrane protection
<b>Automotive</b>	• Blanking wash oils, Top Coats, Hydraulic fluids, Solvent wash
<b>Petrochemicals</b>	• Amine stream, Glycol solutions, Water injection

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