

MAHLE

Industrial Filtration

Filter cartridge amaTech premium wound

1. Introduction

The amaTech premium wound filter cartridges represent the state of the art in wound depth filtration technology.

amaTech premium wound filter cartridges are manufactured under strict quality procedures. Each batch is tested on weight, length and air permeability, ensuring that each cartridge has the same high quality. Because of the state of the art technology used in manufacturing the filter cartridges, the amaTech premium wound filter cartridges offers a highly effective depth filtration.



2. Features

- High quality yarn in several materials
- Wide chemical compatibility
- Centre cores in 4 materials
- Length available from 5 to 40 inch (longer on request)
- In-house manufacturing centre cores
- Core cover, extended cores and end caps available
- Bleached cotton and polypropylene filter media meet the FDA requirements for use in food and beverage applications

3. Product/Performance specifications

Filter medium	: bleached cotton, polypropylene, baked glass fibre, nylon, polyester, other materials on request
Centre core	: polypropylene, tinned steel, stainless steel 304 or stainless steel 316
Core cover	: cotton, polypropylene or glass fibre
Hard ware	: polypropylene
End cap seal	: thermally bonded
Gaskets/O-rings	: silicone, EPDM, Buna-N, Viton®
<i>Dimensions</i>	
External diameter	: see ordering information
Length	: see ordering information
Filtration area	: 0.05 m ² /10" cartridge
Maximum recommended differential pressure	: 2.5 bar

Food safety

The amaTech CW and UW filter cartridges comply with the FDA 21CFR177 requirements for the use in food and beverage applications.

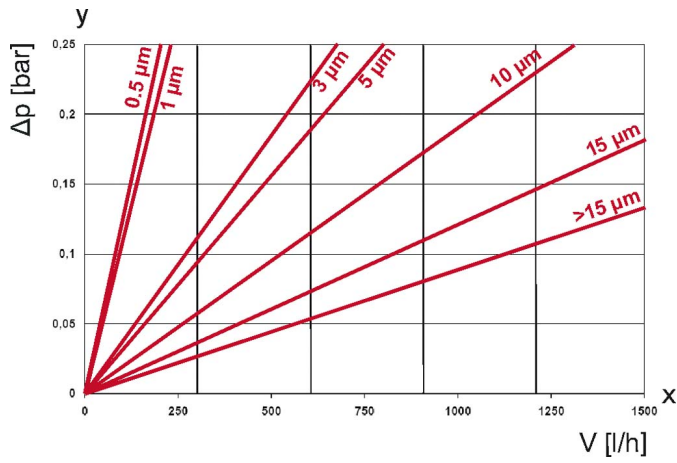
4. Applications

Material	Temperature*	Applications
bleached cotton	145 °C	Bleached to pharmaceutical specifications, for water, potable liquids, dilute acids, dilute alkalies, organic solvents and gases
polypropylene	90 °C	For strong acids, concentrated alkalies, affected by oxidising agents
baked glass fibre	400 °C	Baked at 425 °C to remove all organics. Stronger diluted acids and alkaline, organic solvent and high temperature applications
nylon	120 °C	For concentrated strong alkalies, solvents, condensate
polyester	120 °C	For all possible applications. Not suited for strong alkalies

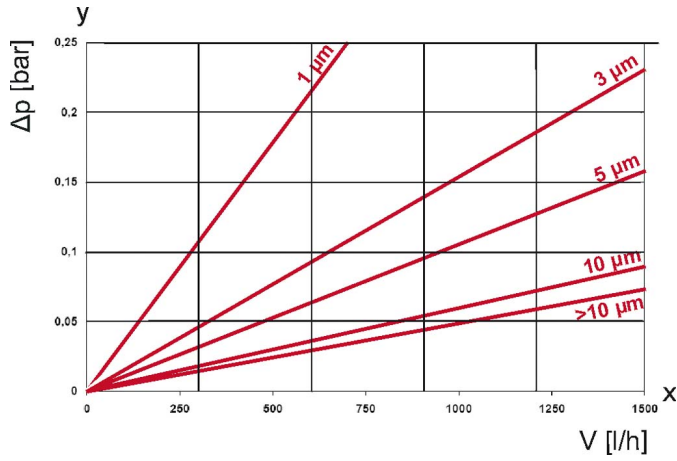
* Temperature is indicative and depends on application and type of centre core

5. Water flow rates

10" amaTech CW cartridge



Other 10" amaTech cartridges



y: Flow rate

x: Clean pressure drop

6. Ordering code

Example

amaTech UW

5

A

20

U

C

X3

S

1PK

Cartridge type

CW = bleached cotton
 UW = polypropylene
 GW = baked glass fibre
 NW = nylon
 EW = polyester

Micron rating

0.5, 1, 3, 5, 10, 15, 20, 30, 50, 70, 100,
 150

Diameter

A = 64 mm
 B = 67 mm
 D = 51 mm

Other diameters on request

Nominal length [inch]

5 (127 mm)	29.25 (743 mm)
9.75 (248 mm)	30 (762 mm)
10 (254 mm)	39.5 (1003 mm)
19.5 (495 mm)	40 (1016 mm)
20 (508 mm)	

Other lengths on request

Centre core

U = polypropylene S = stainless steel 316 (standard for GW)
 A = stainless steel 304 T = tinned steel

Core cover

No symbol=without core cover
 C=compatible with and equal to resistance of fibre and micron rating
 of the filter cartridge

Cartridge style

No symbol=DOE, no gaskets
 X1, X3, X4, X6, X7, X8

Gasket/O-Ring material

S=Silicone
 N=Buna-N
 E=EPDM
 V=Viton®

Options

1PK=single packed (standard for GW)

X1=extended centre core (only for metal centre cores), X3 = SOE with external 222 O-rings, X4=DOE with flat gaskets, X6=SOE with flat end, bayonet and external 226 O-rings, X7=SOE with fin end, bayonet and external 226 O-Rings, X8=SOE with fin end and external 222 O-Rings

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