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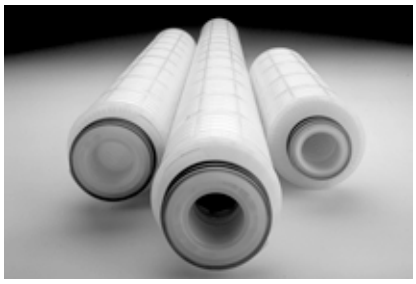
Bevigard™-M Cartridge Filters

■ For Optimal Protection of Sterilising Grade Filters or As an Excellent Final Filter for Water Applications



Typical Applications

Bevigard-M cartridge filters are designed for beverage prefiltration applications like clarification or for final filtration stages such as sterilising grade filter protection or bioburden reduction of water.

Efficiency

Used in last stage prefiltration applications, these versatile surface-type filters retain contaminants on the mixed cellulose esters membrane.

Used as final filter for bioburden reduction, they offer excellent microorganisms removal efficiency.

Cost Effective

Because of their structure, Bevigard-M cartridge filters offer the best protection of final sterilising-grade filters, saving money on this critical final step.

Bevigard-M filters can also be repeatedly hot water regenerated providing highly cost effective filtration.

Quality

Supplied with a Certificate of Quality which certifies that Bevigard-M filters meet Quality Assurance lot release criteria.

They are manufactured in a facility whose Quality Management System is approved by an accredited registering body to the ISO 9000 Quality Systems Standard.

Specifications

Materials

Rigid polypropylene core, end caps, and outer handling cage; cellulose ester filter material; spun bonded polyester supports; silicone O-rings.

Cartridge Size

25cm/10", 50 cm/20", 75 cm/30", 100 cm/40" lengths; outside diameter 7.4 cm.

Filtration Area

Double Layer Cartridges
0.7 m^2 per 25 cm/10" cartridge element.
Single Layer Cartridges
0.8 m^2 per 25 cm/10" cartridge element.

Operating Conditions

Maximum Differential Pressure:
3.5 bar at 25°C.
Maximum Operating Temperature:
80°C.
Sterilisability:
Bevigard-M cartridges may be multiple steam-sterilised or hot water sanitised.

MILLIPORE

Certificate of Quality - Example

Bevigard-M filters are designed, developed and manufactured in accordance with a Quality Management System approved by an accredited registering body to an ISO 9000 Quality System Standard.

Each Bevigard-M cartridge is shipped with a Certificate of Quality for documentation accuracy.

This certificate reports all the tests made on these cartridges to insure the consistency and the quality of the product we deliver.

Bevigard-M® Cartridge Filter

0,2 µm Nominal Rated
Catalogue Number: CW0373SB1
Lot Number:

Good Manufacturing Practices
This product was manufactured in a Millipore facility which meets or exceeds FDA Device Good Manufacturing Practice standards.

ISO 9000 Quality Standard
This product was manufactured in a Millipore facility whose Quality Management System is approved by an accredited registering body to the appropriate ISO 9000 Quality Systems Standard.

Non Fiber Releasing
This product was manufactured with a Millipore media combination which meets the criteria for a "non-fiber releasing" filter as defined in 21 CFR 210.3 (b) (6).

Component Materials Toxicity
Component materials were tested and met the criteria for the USP Class VI Biological Test for Plastics at 50°C.

Indirect Food Additive
All component materials meet FDA Indirect Food Additive requirements cited in 21 CFR 177-182.

Quality Assurance Lot Release Criteria
This manufacturing lot was sampled, tested and released by Quality Assurance to the following specifications:

Structural Integrity
Samples were found to be integral as measured by an aerosol challenge test.

Flow Rate and Pressure Drop
Samples met a maximum pressure drop of 6.0 psid (414 mbar) at 30 gpm (114 L/min) per 30-inch cartridge with clean water at 23°C.

SAMPLE

Quality Assurance Audit Criteria
This product was designed and manufactured to meet the following specifications. Performance is confirmed by testing on an audit basis:

Toxicity
This product is non-toxic per the current USP General (Mouse) Safety Test.

Gravimetric Extractables
The extractables level was equal to or less than 50 mg per 10-inch cartridge after 24 hours in ASTM Type 1 reagent-grade water at controlled-room temperature.

Multiple Sterilisation Cycles
Integrity was maintained after 10 steam-in-place cycles of 30 minutes at 121°C.

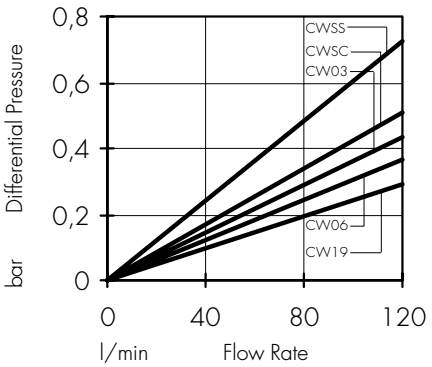
Nicholas Lambo
Vice President and General Manager,
BioProcess Division

John P. Tuttle
Manager, Worldwide Quality Systems and Certification, BioProcess Division

Certificate of Quality - Example

Water Flow Rate

for a 75 cm/30" cartridge at 23 °C



Construction and Pore Size

Bevigard-M	Nominal Pore Size	Mixed Cellulose Esters Membrane		
		0.2 µm	0.5 µm	1.2 µm
CW03	0.2 µm	X		
CW06	0.5 µm		X	
CW19	1.2 µm			X
CWSS	0.2 µm	X	X	
CWSC	0.5 µm		X	X

Ordering Information

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Cartridge Filter	Cartridge Type Bevigard-M	Cartridge Code	Cartridge Length	O-Ring Material	Packaging	
	W03 = 0.2 µm W06 = 0.5 µm W19 = 1.2 µm WSS = 0.2 µm WSC = 0.5 µm	0 = 2-222 o-ring 7 = 2-226 o-ring with spear and bayonet	1 = 10" 2 = 20" 3 = 30" 4 = 40"	Silicone	1/pk	

MILLIPORE