Composite filter media for increased colloid

retention capacity

Ideal for protecting final membrane filters, or prefilters in "difficult"

applications

each box

Conveniently fits all

cartridge housings

Resistant to backpressure

Easy to clean and maintain

Certificate of Compliance in

Polygard® CE Filters

High-efficiency prefilters for removal of colloids from beverages

For 45 years, Millipore has assisted beverage companies throughout the world with perfecting manufacturing operations and developing microbial management concepts for monitoring and removing microorganisms. Taking from this experience, we have developed the Polygard CE filter to help with the critical needs in beverage manufacturing. Polygard CE is a pleated filter with composite glass fiber, inorganic filter aid and polypropylene media which provides unique characteristics useful in wine and some bottled water applications where

The unique media combination in the Polygard CE filter combines the high adsorption capacity of a glass microfiber and diatomite with the robustness of polypropylene for high resistance to backflush, peracetic acid, chlorine 100 ppm, and temperature. Polygard CE filters are available in a range of grades to retain colloidal matter better than any other prefilter cartridge. Use Polygard CE filters as:

- and Bevigard M filters in protecting final Vitipore™ cartridge filters
- Protection for Bevigard P and Bevigard M filters

difficult to remove colloidal particles present a challenge.

An alternative to Bevigard[™] P



Polygard CE filters are engineered for high efficiency filtration giving extended protection to downstream final filters. Glass fibers with diatomaceous earth and polypropylene are fused into a composite filter medium to provide exceptional throughput and high colloidal retention capability. The Polygard CE filters can be repeatedly hot water regenerated providing highly cost effective filtration. They are supplied with a Certificate of Compliance, which certifies that Polygard CE filters meet quality assurance lot release criteria.

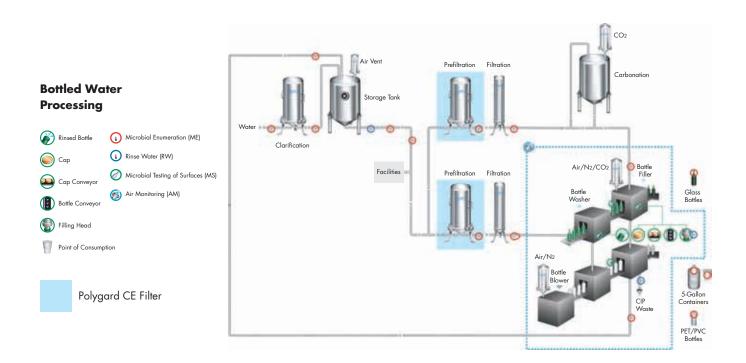




Use Polygard CE Filters in Your Beverage Production Processes

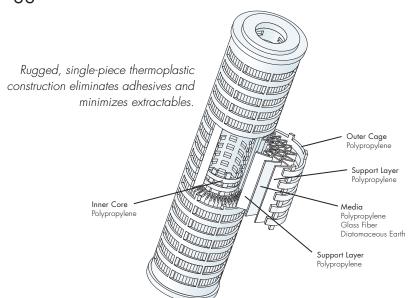


In wine processing, the Polygard CE filter has the role of protecting the final filter, ensuring a long life time and good economics, as well as a role of assuring the microbiological stabilization by reducing the initial bioburden.



During bottled water manufacturing, the Polygard CE filter protects the final filter to ensure a long life, provide good filtration train economics and minimize the risk of particulate and microbiological contamination.

Rugged Construction



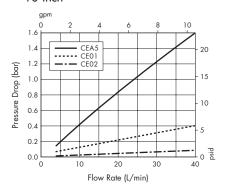
Certificate of Compliance

Each Polygard CE Filter package contains a Certificate of Compliance for documentation accuracy. This document certifies that the component materials meet FDA Indirect Food Additive requirements cited in 21 CFR 177–182 and that product was designed and manufactured to stringent specifications assuring its suitability for demanding beverage filtration applications

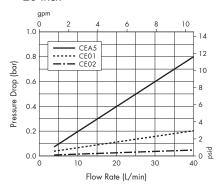
	Per 10-inch Element Code 7	Code 0	Code F (excluding gasket)
Nominal Dimensions			
Diameter:	70 mm (2.75 in.)		
Overall length:	, , ,		
10-inch cartridge:	319 mm (12.6 in.)	264 mm (10.4 in.)	246 mm (9.8 in.)
20-inch cartridge:	568 mm (22.4 in.)	512 mm (20.2 in.)	496 mm (19.6 in.)
30-inch cartridge:	816 mm (32.1 in.)	761 mm (30.0 in.)	746 mm (29.4 in.)
40-inch cartridge:	1062 mm (42.1 in.)	1011 mm (39.8 in.)	996 mm (39.2 in.)
Micron Retention Grades (Pore Size)	0.5, 1.0, 2.0 μm		
Filtration Area			
O.5 μm:	0.21 m ² (2.2 ft ²) per 10-inch element		
1.0 μm:	0.30 m² (3.2 ft²) per 10-inch element		
2.0 µm:	0.50 m ² (5.3 ft ²) per	10-inch element	
Materials of Construction			
Filter media:	Polypropylene, inorganic filter aid, glass fibers		
Structural components:	Polypropylene		
O-rings (Code 7):	Silicone		
Gasket (Code F):	Silicone		
Typical Operating Flow			
Wine applications:			
0.5 μm:	800 – 1,000 litres per hour (200 – 260 gallons per hour) per 30-inch cartridge		
1.0 μm:	1,000 – 1,200 litres per hour (250 – 310 gallons per hour) per 30 inch cartridge		
Water applications:			
0.5 μm:	1,000 – 1,500 litres per hour (250 – 400 gallons per hour) per 30 inch cartridge		
Maximum Differential Pressure	4.8 bar (70 psid) at 20 °C (68 °F)		
Maximum Operating Temperature	80 °C (176 °F)		
Sterilization, Steam or Autoclave	121 °C, 5 cycles of 30 minutes		
Hot Water Sanitization	80 °C maximum for 30 minutes		
Indirect Food Additive	All component materia	ls meet the FDA Indirect Fo	ood Additive requirements cited in 21 CFR 177-182.

Typical Clean Water Flow Rates

Cartridge Filters with Polygard CE Media — 10-inch



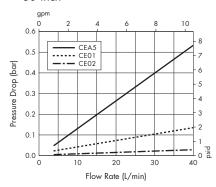
Cartridge Filters with Polygard CE Media 20-inch



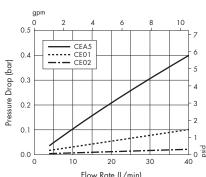
Cartridge Legends Refers to Pore Size

 $CEA5 = 0.5 \mu m$ $CEO1 = 1.0 \, \mu m$ $CEO2 = 2.0 \mu m$

Cartridge Filters with Polygard CE Media — 30-inch



Cartridge Filters with Polygard CE Media — 40-inch



1 = 10-inch

2 = 20-inch

3 = 30-inch

4 = 40-inch

Ordering Information



Depth Filter Cartridge



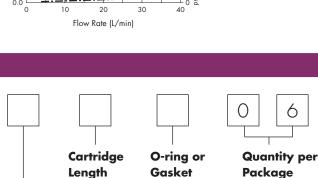
Pore Size $A5 = 0.5 \, \mu m$

 $01 = 1.0 \, \mu m$ $02 = 2.0 \, \mu m$

Cartridge Code 0 = Code 0 (2-222) O-ring

7 = Code 7 (2-226) O-ring with locking tab and spear

F = Code F Double open-end flat gasket



S = Silicone

E = Ethylene

Propylene

To Place an Order or Receive Technical Assistance

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06 = 6/pk

Rotterdamseweg 402m 2629HH Delft The Netherlands info@lenntech.com www.lenntech.com Tel. +31-15-261.09.00 Fax. +31-15-261.62.89

Polygard-CE-Filters

CEA501S06	CE0201S06
CEA501E06	CE0201E06
CEA502S06	CE0202S06
CEA502E06	CE0202E06
CEA503S06	CE0203S06
CEA503500	CE0203500
CEA503E00	CE0203E00
CEA504500	CE0204500
CEA504E06 CEA571S06	
	CE0271S06 CE0271E06
CEA571E06	
CEA572S06	CE0272S06
CEA572E06	CE0272E06
CEA573S06	CE0273S06
CEA573E06	CE0273E06
CEA574S06	CE0274S06
CEA574E06	CE0274E06
CEA5F1S06	CE02F1S06
CEA5F1E06	CE02F1E06
CEA5F2S06	CE02F2S06
CEA5F2E06	CE02F2E06
CEA5F3S06	CE02F3S06
CEA5F3E06	CE02F3E06
CEA5F4S06	CE02F4S06
CEA5F4E06	CE02F4E06
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Lenntech B.V.

T +31-15-261.09.00

F +31-15-261.62.89

info@lenntech.com www.lenntech.com