



CHEMVAST[™] ABSOLUTE-RATED FILTERS

PTFE filters for low-temperature, high-purity chemical filtration

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PTFE FILTERS FOR LOW TEMPERATURE, HIGH-PURITY CHEMICAL FILTRATION

Cobetter Chemvast[™] filter series are available in three different PTFE membranes including hydrophobic PTFE, hydrophilic PTFE or non-dewetting PTFE.

With a HDPE support structure, the filter is highly compatible with most lower temperature, dilute semiconductor process chemistries Chemvast is available in a wide range of retention ratings and pore sizes to meet customer's requirements.

Non-dewetting PTFE resists dewetting by increasing the surface energy of the membrane which results in higher flow rates and filtration efficiency. With its HDPE cage, core, and high purity membrane, Chemvast is a lower cost alternative compared to the all-fluoropolymer Chemrapid[®] Filter Series. Chemvast Hydrophilic PTFE membrane can be used to filter dilute acidic and alkaline chemistries, as well as polar solvents without pre-wetting.

FEATURE	BENEFIT			
HDPE Cage/Core	Good chemical compatibility			
	Low metal extractables			
	Lower cost compared to all-fluoropolymer filters			
Non-dewetting PTFE membrane option	Resists dewetting in lower temperature outgassing chemistries			
	Enhanced retention of particles			
Hydrophilic PTFE membrane option	No prewetting			
	Good performance in dilute HF solutions and some polar solvents			
Prewet option	Reduces pre-operation time			
	Easy start up with aqueous-based chemicals			
100% integrity tested	Ensures highly efficient particle retention every time			
100% integrity tested	Ensures highly efficient particle retention			



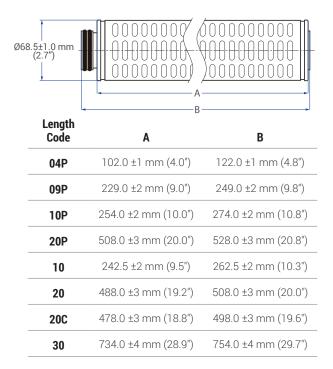
Typical Applications

- Low temperature wet etch and clean
- Bulk chemicals distribution
- High-purity chemical manufacturing

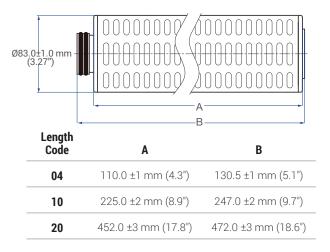
SPECIFICATIONS

Filter media	Hydrophobic PTFE / Hydrophilic PTFE / Non-dewetting PTFE						
Supports/core/cage/end caps	HDPE						
O-rings (cartridge only)	TEV or EPDM						
Shell (disposable only)	HDPE						
Max. operating temperature	Cartridge: 70°C; Capsule: 38°C						
Max. operating pressure	Capsule: 0.34 MPa (3.4 bar, 49 psi) at 25°C						
Cartridge max. differential	Forward: 0.4 MPa (4.0 bar, 58 psi) at 25°C						
pressure	Reverse: 0.3 MPa (3.0bar, 43.5 psi) at 25°C						
Effective filtration area	X1 (ø68mm)	X2 (ø68mm)	Z1 (ø83mm)	Z2 (ø83mm)	Z3 (ø83mm)		
10"	0.9m ² (9.7ft ²)	1.3m ² (14.0ft ²)	1.3m ² (14.0ft ²)	1.9m² (20.5ft²)	2.2m ² (23.7ft ²)		

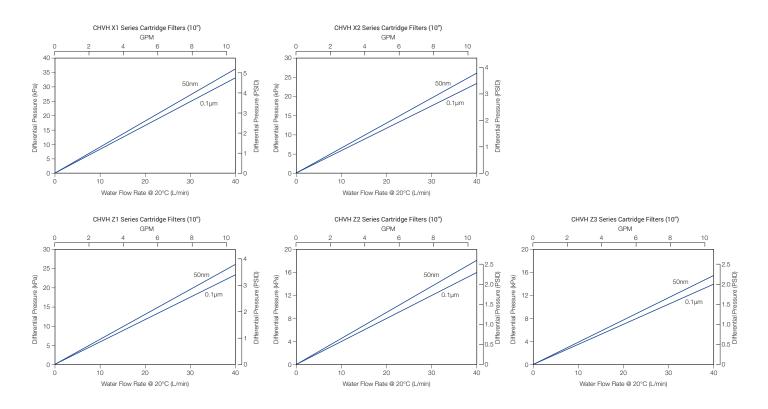
CHEMVAST X1, X2 CARTRIDGE FILTERS (2-222/FLAT)



CHEMVAST Z1, Z2, Z3 CARTRIDGE FILTERS (2-222/FLAT)

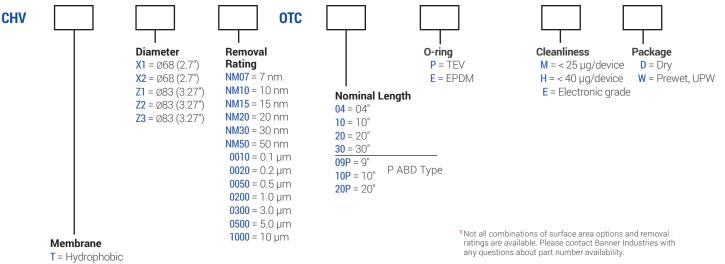


CARTRIDGE FLOW RATES



CARTRIDGE ORDERING INFORMATION¹

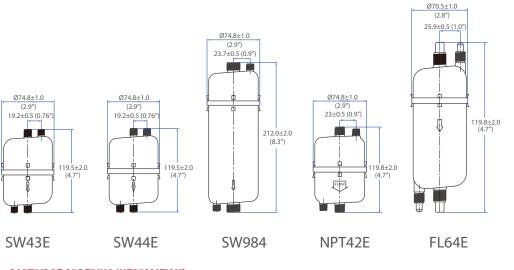
EXAMPLE: CHVRX1NM300TC10EMW = HDPE cage/core, non-dewetting, 2.7"W, 30nm, 10" length, M grade, pre-wet



H = Hydrophilic 50 nm/0.1/0.2/0.5/1.0/3.0/5.0/10 μm

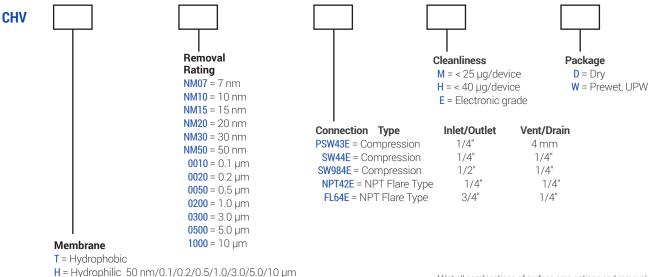
R = Non-dewetting 7/10/15/20/30/50nm/0.1 μm

CHEMVAST CAPSULE FILTERS



CARTRIDGE ORDERING INFORMATION¹

EXAMPLE: CHVHNM50SW44EED = Hydrophilic, 50 nm, compression 1/4" IO, 1/4" VD, electronics grade, dry



H = Hydrophilic 50 hm/0.1/0.2/0.5/1.0/3.0/5.0/10

R = Non-dewetting 7/10/15/20/30/50nm/0.1 μ m

¹ Not all combinations of surface area options and removal ratings are available. Please contact Banner Industries with any questions about part number availability.

BannerIndustries

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