HDC[®] II Filter Cartridges High Dirt Retention All-polypropylene Prefilters



Pall **HDC** II all-polypropylene filter cartridges incorporate proprietary **HDC** II tapered pore polypropylene depth media. The single open-ended (SOE) AB filter cartridge style features a high-area pleated modular element construction designed to fit in sanitary filter housings.

HDC II filter cartridges are well-suited for a broad range of fine particle and prefiltration applications where purity, economy and reliability are critical. Typical applications include biologicals, pharmaceuticals, fermentation feeds and intermediates, and vaccines.

Features and Benefits

- All-polypropylene construction
- Resin-free, melt-sealed
- Constant density tapered pores
- · High-capacity for long-life
- Fixed pore, non-shedding
- Low protein binding
- Low extractables
- Broad chemical compatibilities
- Autoclavable and steamable in situ
- Manufactured for use in conformance with cGMP
- ISO 9000 Certified Quality System
- Pharmaceutical P optimized grades with Certificate of Test provided
- FDA-listed materials per 21 CFR

Note: These filters are also available in **Kleenpak** Nova capsule format.

Quality and Bio-Safety

Biological Tests

 Meets USP Biological Reactivity Test, in vivo, for Class VI-121 °C Plastics

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Effluent Quality Tests*

- Meets Cleanliness per USP Particulates in Injectables
- Non-Fiber-Releasing
 Non-Pyrogenic per USP
- Bacterial Endotoxins (< 0.25 EU/mL)
- Meets Total Organic Carbon and Water Conductivity per USP Purified Water, pH per USP Sterile Purified Water

* Per lot sample soak or rinse-up flush aliquots.

HDC II Filter Cartridges

Technical Specifications

Materials of Construction

Medium	Polypropylene				
Support and Drainage Layers	Polypropylene Polypropylene				
Core, Cage and End Caps					
P Grade Code 7 Adapters	Polypropylene with encapsulated stainless steel ring				
O-ring	Silicone ⁽¹⁾				

(1) Other polymers available

Removal Ratings (Liquid)⁽²⁾

70 μm, 40 μm, 20 μm, 10 μm, 6 μm, 4.5 μm, 2.5 μm, 1.2 μm, 0.6 μm[®]

 $^{\scriptscriptstyle (2)}$ > 99.98% by modified OSU-F2 test. 0.6 to 20 μm in water, 40 and 70 μm in oil. $^{\scriptscriptstyle (3)}$ Extrapolated value.

Nominal Dimensions

30 in. (762 mm), 40 in. (1016 mm)	30 in. (762 mm), 40 in. (1016 mm)
Diameter 70 mm (2.75 in.)	70 mm (2.75 in.)

Operating Conditions

Maximum Differential	5.5 bard (80 psid) to 50 °C (122 °F)
Pressure and Temperature ⁽⁴⁾	4.1 bard (60 psid) to 80 °C (176 °F)

(4) Using compatible fluids.

Autoclaving and Steaming in situ⁽⁵⁾

Maximum Steam Temperature 140 °C (284 °F)

⁽⁵⁾ Filters should be qualified in actual use. Contact Pall for recommended procedures.

Typical Liquid Flow Rates⁽⁶⁾





[®] Typical initial media ΔP 10 in. (254 mm) element; water at 20 °C (68 °F); viscosity 1 cP. For assistance in filter assembly sizing and housing selection, contact your local Pall representative.

Ordering Information

АВ					7					
Code	Nominal Length	Code	Removal Rating	Nominal Filter Area ⁽⁷⁾	Cartridge Style	Code	Filter Grade	Code	Gasket Option	
1	10 in.	J006	0.6 µm	0.63 m² (6.7 ft²)	Double 226 O-ring	P Omit	Pharmaceutical*	H4	Silicone	
	(254 mm)	J012	1.2 µm	0.70 m ² (7.5 ft ²)	with bayonet lock and fin end [®]		General Use	Other materials available on		
2	20 in. (508 mm)	J025	2.5 µm	0.88 m² (9.5 ft²)	® Other adapter codes	* Pall pharm	aceutical-grade filters	request.		
	(000 mm)	J045	4.5 µm	0.88 m ² (9.5 ft ²)	available.	conforman	e with CGMP in			
3	4 40 in. (1016 mm)	J060	6 µm	0.42 m ² (4.5 ft ²)		Manufactu Packing or	ring, Processing, Holding of Drugs			
4		J100	10 µm	0.55 m ² (6.0 ft ²)		(21CFR210 finished Ph)) and CGMP for narmaceuticals			
		J200	20 µm	0.55 m ² (6.0 ft ²)		(21CFR211 release cer	.72) including batch			
		J400	40 µm	0.38 m ² (4.0 ft ²)		traceability				
		J700	70 µm	0.38 m ² (4.0 ft ²)						

77 Per 10 in. (254 mm) element.