



#### PHOTOPEX™ NYLON 6,6 ULTRA-HIGH EFFICIENCY FILTERS

Hydrophilic nylon membrane filters

# PHOTOPEX™ NYLON FILTERS

# HYDROPHILIC NYLON 6,6 FILTERS FOR EFFICIENT PARTICLE REMOVAL IN SEMICONDUCTOR PHOTORESISTS AND SOLVENTS

With high flow rate performance, excellent retention capabilities and cleanliness, Cobetter Photopex™ Nylon 6,6 Filter Cartridges are well suited for filtering photoresists, solvents and other chemicals in semiconductor processes.

Photopex Nylon 6,6 Filter Cartridges use a pure unmodified hydrophilic nylon membrane with guaranteed levels of metal extractable and particle cleanliness. The filter's cleanliness reduces chemical waste and time to process after installation.

Cobetter Photopex Nylon 6,6 filters are available in a wide variety of sizes and configurations to meet all your requirements.

BENEFIT	
Naturally hydrophilic media wets out easily with most fluids	
Adsorptive properties effective in removing certain contaminants	
High particle removal efficiency	
High chemical compatibility	
High cleanliness, including low metal extractables	
High flow and longer service life for photochemical manufacturing	
Easy installation and replacement of competitive capsules	
Reduces pre-process time and chemical waste	
Chance of abnormal particle passage is eliminated	



# **Typical Applications**

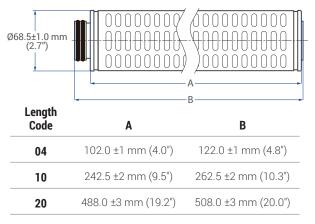
- Photoresist Filtration
- · Solvent Filtration
- Photochemical Filtration

#### **SPECIFICATIONS**

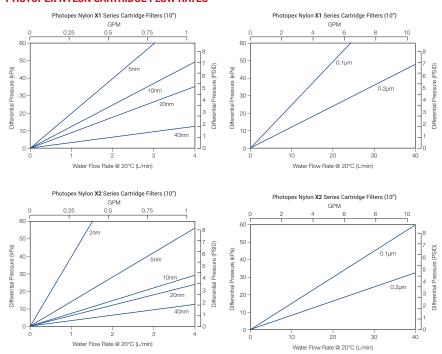
Filter media	Nylon 66	
Supports/core/cage/end caps	HDPE/PP	Shell (disposables only) HDPE/PP
O-rings (cartridge only)	TEV or EPDM	
Max. operating temperature	Cartridge: 50°C; Ca	psule: 38°C

Max. operating pressure	Capsule: 0.34 MPa (3.4 bar, 49 psi) at 25°C					
Cartridge max.	Forward: 0.34 MPa (3.4 bar, 49 psi) at 25°C					
differential pressure	Reverse: 0.24 MPa (2.4 bar, 35 psi) at 25°C					
Effective filtration	<b>X</b> 1	X2				
Effective filtration area (10")	(ø68mm)	(ø68mm)				
alea (10 )	1.3m <sup>2</sup> (14.0ft <sup>2</sup> )	1.8m <sup>2</sup> (19.4ft <sup>2</sup> )				

## PHOTOPEX NYLON CARTRIDGE FILTERS

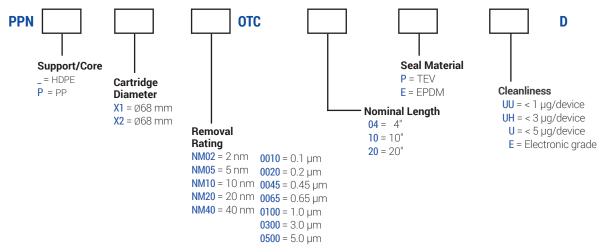


#### PHOTOPEX NYLON CARTRIDGE FLOW RATES

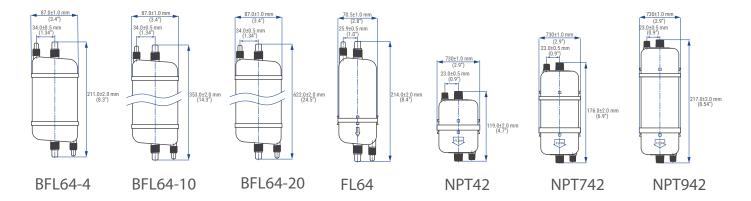


#### PHOTOPEX NYLON CARTRIDGE ORDERING INFORMATION

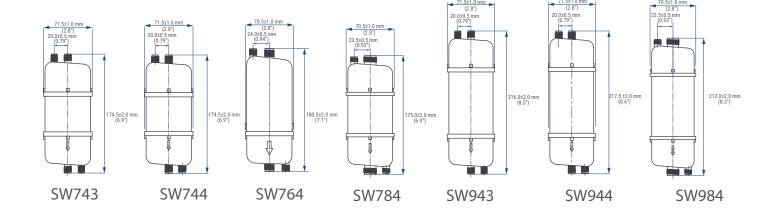
 $\texttt{EXAMPLE: PPNX100100TC20EUD} = \texttt{HDPE suppports/core}, 68 \text{ mm diameter}, 0.1 \mu\text{m}, 20^* \text{ length}, \texttt{EPDM O-ring}, < 5 \, \mu\text{g/device cleanliness}, dry \texttt{enderse}, \texttt{en$ 



## PHOTOPEX NYLON CAPSULE FILTERS







## PHOTOPEX NYLON CAPSULE ORDERING INFORMATION

EXAMPLE: **PPNP0010PL54LED** = Polypropylene, 0.1 um, flaretype 8 mm, 4 mm, electronic grade,, dry

PPN				D		
	Support/Core _ = HDPE P = PP	Removal Rating NM02 = 2 nm NM05 = 5 nm NM10 = 10 nm NM20 = 20 nm NM40 = 40 nm	Cleanliness  UU = < 1 \mug/device  UH = < 3 \mug/device  U = < 5 \mug/device  E = Electronic grade			
		$0010 = 0.1  \mu \text{m}$	Connection Type	Inlet/Outlet	Vent/Drain	Lengths
		<b>0020</b> = 0.2 μm	HDPE Filters:			J
		$0045 = 0.45 \mu\text{m}$	SW43E = Compression	1/4"	4 mm	120 mm (4.7")
		<b>0065</b> = 0.65 μm	SW44E = Compression	1/4"	1/4"	120 mm (4.7")
		$0100 = 1.0  \mu \text{m}$	SW984E = Compression	1/2"	1/4"	212 mm (8.3")
		<b>0300</b> = 3.0 μm	NPT42E = NPT	1/4"	1/8"	119 mm (4.7")
		<b>0500</b> = 5.0 μm	FL64E = Flare Type	3/8"	1/4"	214 mm (8.4")
			PP Filters:			, ,
			<b>BFL64-4</b> = Flare Type	3/8"	1/4"	211 mm (8.3")
			BFL64-10 = Flare Type	3/8"	1/4"	363 mm (14.3")
			BFL64-20 = Flare Type	3/8"	1/4"	622 mm (24.5")
			FL64 = Flare Type	3/8"	1/4"	214 mm (8.4")
			NPT42 = NPT	1/4"	1/8"	119 mm (4.7")
			<b>NPT742</b> = NPT	1/4"	1/8"	176 mm (6.9")
			NPT942 = NPT	1/4"	1/8"	217 mm (8.5")
			SW43 = Compression	1/4"	4 mm	116 mm (4.6")
			SW743 = Compression	1/4"	4 mm	174.5 mm (6.9")
			SW943 = Compression	1/4"	4 mm	216 mm (8.5")
			SW44 = Compression	1/4"	1/4"	118mm (4.6")
			SW744 = Compression	1/4"	1/4"	174.5 mm (6.9")
			SW944 = Compression	1/4"	1/4"	217.5 mm (8.6")
			SW84 = Compression	1/2"	1/4"	114.5 mm (4.5")
			SW784 = Compression	1/2"	1/4"	175 mm (6.9")

SW984 = Compression

SW764 = Compression



1/2"

3/8"

1/4"

1/4"

212 mm (8.3")

180.5 mm (7.1")