

# optimum filter

## Filter Data Sheet

### High Purity – Electronics Grade Nylon 6,6 and Plus+ Nylon 6,6

Hydrophilic Nylon 6,6 for Electronics Applications

**Electronics Grade Nylon 6,6 Cartridges** are naturally hydrophilic requiring no surface treatments that can leach into your process. Electronics Grade Cartridges are available in both our standard and Plus+ grades. The Plus+ grade membrane is modified with a high positive charge for removal of endotoxins and small negatively charged contaminants. All Electronics Grade Cartridges are flushed with 18 megohm high purity water to minimize extractable. Cartridges are also integrity tested.



Filter Grade (µm)	DI Water Flow per 1 PSID (gpm/10" (25.4 cm) equivalent)
0.03	0.75 (2.9 lpm)
0.05	0.8 (3.0 lpm)
0.1	1.2 (4.5 lpm)
0.2	2.4 (9.1 lpm)
0.45	4.0 (15.1 lpm)
0.65	6.0 (22.7 lpm)
0.8	6.5 (24.6 lpm)
1.2	7.0 (26.5 lpm)

### Typical Applications

Drinking Water  
Wine  
Soft Drinks  
Electronics - Photoresists  
Pharmaceutical  
Fermentation  
Endotoxin Removal

### Construction Materials

**Membrane**.....Nylon 6,6  
**Support Media**.....Polypropylene  
**End Caps**.....Polypropylene  
**Center Core**.....Polypropylene  
**Outer Support Cage**.....Polypropylene  
**O-Rings/Gaskets**.Buna, Viton, EPDM, Silicone, Teflon® Encapsulated Viton

### Sanitization/Sterilization

**Filtered Hot Water**.....80°C for 30 min.  
**Steam Sterilization**.....121°C for 30 min., multiple cycles.

**Chemicals:** Cartridges are chemically compatible with most chemicals and sanitizing agents.

**Note:** Stainless steel insert option needed for all cartridges being hot water sanitized or steam sterilized.

### Dimensions

**Length:**  
10 to 40 inches (25.4 to 101.6 cm) nominal  
**Outside Diameter:**  
2.70 inches (7.0 cm) nominal

### Maximum Differential Pressures

**Forward**.....50 PSI (3.4 bar) at 20°C  
**Reverse**.....40 PSI (2.7 bar) at 20°C

### FDA Listed Materials

Manufactured from materials which are listed for food contact applications in Title 21 of the U.S. Code of Federal Regulations.

### Toxicity

All polypropylene components meet the specifications for biological safety per USP Class VI – 121°C for plastics.

### Ordering Information

GEHNY	Pore Size	A	Length	C	End Cap Code	O-Rings/Gaskets	-	Adders
GEHNY+	0.03		10 (25.4 cm)		2 = DOE Flat Gasket	B = Buna		I = Stainless Steel Insert
	0.05		20 (50.8 cm)		3 = 222 w/ Fin	E = EPDM		
	0.1		30 (76.2 cm)		4 = 222 w/ Flat Cap	S = Silicone		
	0.2		40 (101.6 cm)		6 = 226 w/ Flat Cap	V = Viton		
	0.45				7 = 226 w/ Fin	T = Teflon® Encapsulated Viton		
	0.65				16 = 213 Internal O-Ring			
	0.8							
	1.2							

3725 Interpark Drive • Colorado Springs, CO 80907

Phone: 719-260-5694 • Fax: 719-260-5944 • [www.optimumfilter.com](http://www.optimumfilter.com)