

GFHNY-Series Food and Beverage Grade Nylon and Plus+ Nylon

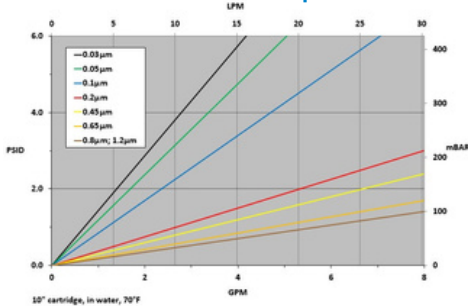
GFHNY-Series High Purity Food and Beverage Grade Nylon and Plus+ Nylon Filter Cartridges featuring nylon 6,6 membrane have a well-proven record of delivering superior microbial retention in the production of highly stable consumables. The optional positive zeta potential surface charge (Plus+) enhances retention performance for particulate well smaller than the stated micron rating, for applications that may include removal of haze, color bodies, and endotoxins. Cartridges are manufactured in a clean room environment and are flushed with 18 megaohm ultra-high purity water to achieve cleanliness and low extractables. Designed to tolerate repeated hot water sanitization and in situ steam sterilization cycles for maximum service life. Each element is integrity tested to assure optimal performance.

Microbial Retention Performance

Rating	Challenge Microbe	Log Reduction Value (LVR)
.2µ	Brevundimonas diminuta	7.6
.45µ	Serratia marcescens	6.6
.65µ	Sacchromyces cerevisiae	4.8

*Independently tested in accordance with ASTM F838

Flow Rate vs Pressure Drop



Typical Applications

- Bottled Water
- Wine
- Soft Drinks
- Pharmaceutical
- Fermentation
- Endotoxin Removal

Sanitization/Sterilization

- Filtered Hot Water**176 °F (80 °C) for 30 min
- Steaming Sterilization**250 °F (121 °C) for 30 min multiple cycles

Chemicals: Cartridges are compatible with most chemical sanitizing agents.

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

Construction Materials

- Membrane**Nylon 6,6
- Support Media**Polypropylene
- End Caps**Polypropylene
- Center Core**Polypropylene
- Outer Support Cages**Polypropylene
- O-Rings/Gaskets**Buna, EPDM, Silicone
Teflon® Encapsulated Viton^{®1}, Viton[®],
Teflon® Encapsulated Silicone²

Toxicity

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

Food Safety Compliance

Materials of construction comply with FDA regulations for food and beverage contact use as detailed in the US Code of Federal Regulations, 21CFR. Materials used to produce filter media and hardware are deemed safe for use in contact with foodstuffs in accordance with EU Directives 1935/2004, and/or 10/2011.

Dimension (Nominal)

- Length**10 to 40 in (25.4 to 101.6 cm)
- Outside Diameter**2.7 in (7.06 cm)

Operating Conditions

- Change Out ΔP (recommended)**35 PSID (2.4 bar)
- Temperature (max)**176 °F (80 °C)
- Differential Pressure (max)**50 PSID at 68 °F (3.4 bar at 20 °C)

Ordering Information

GFHNY	Rating(µ)	A	Length	C	End Cap Style	O-Rings/Gaskets	-	Adders
GFHNY+	0.03		10" (25.4cm)		2 = DOE Flat Gasket ^{1,2}	B = Buna-N		CS = 316SS Compression Spring
	0.05		20" (50.8 cm)		3 = 222 w/Fin	E = EPDM		I = Stainless Steel Insert
	0.1		30" (76.2 cm)		4 = 222 w/Flat Cap	S = Silicone		
	0.2		40" (101.6 cm)		6 = 226 w/Flat Cap	T = Teflon® Encapsulated Viton ^{®1}		
	0.45				7 = 226 w/Fin	V = Viton [®]		
	0.65				16 = 213 Internal O-Ring	Z = Teflon® Encapsulated Silicone ²		
	0.8				28 = 222 3-Tabs w/ Fin			
	1.20							

1 - When ordering with DOE Flat Gasket, gasket style "T" is not available
2 - When ordering with DOE Flat Gasket, gasket style "Z" is not available

DISCLAIMER: Filtration data presented is representative of performance observed in controlled laboratory testing. It is not given as a warranty, specification or statement of fitness for use. Specific performance can vary widely depending on contaminant type, fluid properties, flow rates and environmental conditions. It is recommended that users conduct thorough qualification testing to assure the product functions as required. For additional technical support, a product Performance Guide is available upon request.