

## PureFlo® Charged Nylon Z Series Cartridges

### High Contaminant Removal

PureFlo® Charged Nylon Z Series Cartridges are designed to remove contaminants smaller than the rated pore size (including endotoxins) by way of an adsorptive mechanism. The Z Series filters have been further optimized for improved wettability to improve ease-of-use in applications that require pre/post use integrity testing.

Many particles common in water and other liquids have a net negative charge, allowing for enhanced capture by the positively charged nylon membrane in this filter. This charge-based filtration mechanism combined with the traditional particle size exclusion (sieving) mechanism results in an extremely high removal efficiency at and even below the rated pore size.

Endotoxins much smaller than the filter's rated pore size are readily and efficiently removed from water by way of the non-sieving mechanism, as seen in ZenPure's Test Report TR20008.

All filter cartridges are 100% integrity tested to ensure high filter performance each and every time out of the package.



### Applications

DI Water	UltraPure Water
Critical Parts Cleaning	Endotoxin Minimization
Fine Chemicals	Plating Solutions

### Specification

**Materials of Construction:** Media: Charged Nylon 6,6 membrane (hydrophilic)  
Media Supports: Polyester  
Cage and Core: Polypropylene  
End Caps: Nylon  
O-Rings: Silicone, EPDM, Fluoroelastomer, Buna N

**Effective Filtration Area:** EPN Version - 6.5 ft<sup>2</sup> (0.6 m<sup>2</sup>) per 10" cartridge element  
MPN Version - 9 ft<sup>2</sup> (0.84 m<sup>2</sup>) per 10" cartridge element

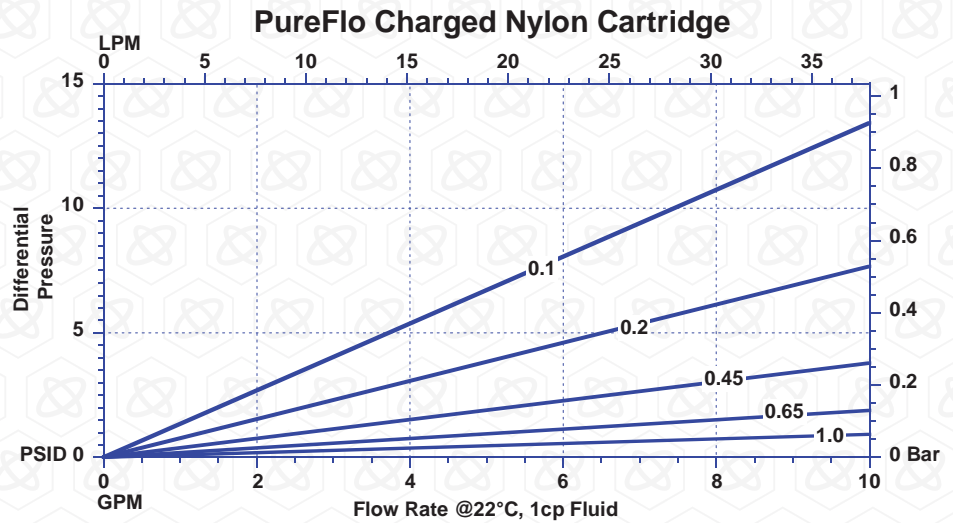
**Nominal Dimensions:** Lengths: 5 in. (13 cm), 10 in. (25 cm), 20 in. (51 cm), 30 in. (76 cm), 40 in. (102 cm)  
Diameter: 2.75 in. (70 mm)

**Available Ratings:** 0.05, 0.1, 0.2, 0.45, 0.65, 0.8, 1.0 µm

**Operating Conditions:** Maximum Forward Differential Pressure: 5.0 bar (72.5 psid) at 22 °C  
2.0 bar (29 psid) at 80 °C  
Maximum Reverse Differential Pressure: 3.0 bar (43.5 psid) at 22 °C  
1.0 bar (14.5 psid) at 80 °C  
Maximum Operating Temperature: 80 °C

**Regulatory Compliance:** The filters are constructed with resins and filtration media in compliance with 21 CFR Part 177 of the US Code of Federal

## PureFlo<sup>®</sup> Charged Nylon Z Series Cartridges



Specifications (cont.)

**Sterilization & Autoclaving:**

The filters can be sterilized by autoclaving for up to 5 cycles at 125 °C (257 °F) for 30 minutes. The filters can also be sterilized by steam-in-place procedure up to 3 cycles at 135 °C (275 °F) for 30 minutes at less than 0.3 bar (4.35 psi) differential pressure. The filters can also be sanitized by hot water or common chemicals that are compatible with filter components.

### PureFlo<sup>®</sup> Charged Nylon Z Cartridge Ordering Guide

PureFlo Charged Nylon Filters	Removal Rating	End Modifications	Length	O-Ring / Gasket Materials	Package Qty	Inserts
ENZ = Charged Nylon (6.5Ft2) per 10"	05 - 0.05 micron	0 = 222 O-Ring Flat	1 - 10"	E = EPDM	1= 1pc/ pack	Blank = Standard -5 = SS Insert
	10 - 0.10 micron	3 = 222 O-Ring w/tabs Spear	2 - 20"	N = Buna N		
	20 - 0.20 micron	5 = 222 O-Ring Spear	3 - 30"	P = Peroxide Cured EPDM		
MNZ = Charged Nylon (9.0 Ft2) per 10"	50 - 0.45 micron	6 = 226 O-Ring Flat	4 - 40"	Q = Platinum Cured Silicon		
	65 - 0.65 micron	7 = 226 O-Ring Spear	5 = 5"	S = Silicone		
	80 - 0.80 micron	8 = 223 O-Ring Flat	9 = 9.75"	T = TEV or FEP Gasket		
	PET support	1X - 1.2 micron	F = DOE Flat Gasket S = SOE Flat Gasket Z = SOE Internal O-ring Flat **	U = TES* V = Fluoroelastomer		

Example - Charged Nylon with 9ft2, 10", 0.2 micron cartridge, with 2-226 Silicone o-ring, Spear, and no insert would be MNZ2071S1

\* - not available in Code Z

\*\* - only available in 5", 9.75", 10" and 20", retrofit for DOE housings

**ZenPure**

Your Local Distributor:

**ZenPure**

North & South Americas:  
ZenPure Americas, Inc  
www.zenpure.com  
Info-us@zenpure.com  
703-335-9910

All Other Regions:  
ZenPure Corporation  
www.zenpure.com  
info@zenpure.com  
+86 571 2288 6800



ZenPure and PureFlo are registered trademarks of ZenPure Corporation or an affiliated company. Copyright 2003-2012 ZenPure or an affiliated company. All rights reserved.