

# ZCore\*

## Z.Plex\* technology depth filter for high temperature applications



### features and benefits

- Engineered specifically for high temperature filtration
- Unique construction maintains structural integrity while significantly increasing dirt holding capacity
- Polypropylene core greatly enhances strength and temperature resistance
- Melt-bonded exterior ensures no media migration and prevents premature surface blinding

### applications

- High temperature applications
  - Food and beverage
  - Chemicals
  - Oil and gas
- High viscosity fluids filtration
- High pressure drop applications

### specifications

**Table 1: Specifications and performance information**

<b>Ratings</b>	0.5, 1, 3, 5, 7, 10, 15, 20, 25, 30, 40, 50, 75, 100, 120, 150, 200 microns (nominal)	
<b>Inner Diameter</b>		1.1 in (2.79 cm)
<b>Outer Diameter</b>	0.5-3 micron	2.75 in (6.99 cm)
	5-200 micron	2.55 in (6.48 cm)
<b>Lengths</b>	10 in (25.4 cm)	30 in (76.2 cm)
	20 in (50.8 cm)	40 in (101.6 cm)
	<i>Longer lengths up to 70 in may be available upon request</i>	
<b>Materials of Construction</b>	Filter Media	Polypropylene
	Adapters	Polypropylene
	Elastomer	Buna, EPDM, Silicone, Viton <sup>1</sup> Santoprene <sup>2</sup> (flat gasket only)
<b>Performance Conditions</b>	maximum pressure drop:	
		60 psid (4.1 bar) @ 86°F (30°C)
		25 psid (1.7 bar) @ 150°F (66°C)
		15 psid (1.0 bar) @ 180°F (82°C)
	recommended change-out pressure drop:	
		35 psid (2.4 bar) @ 77°F (25°C)

### efficiency information

**Table 2: Removal efficiency based on a modified ASTM 795 procedure**

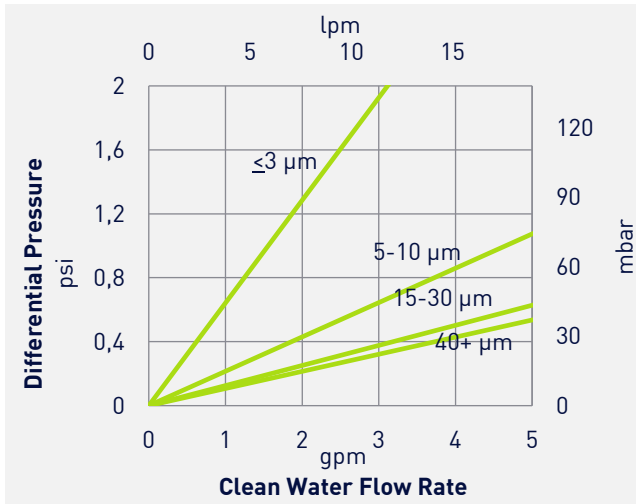
Micron Rating	Removal rating (µm) at various efficiencies		
	90.0%	99.0%	99.9%
≤1 µm			
3 µm			
5 µm			
7 µm			
10 µm			
15 µm			
20+ µm			

*Efficiency of nominal filters varies by application. See note for information on nominal filter efficiency<sup>3</sup>*

Find a contact near you by visiting [www.suezwatertechnologies.com](http://www.suezwatertechnologies.com) and clicking on "Contact Us."

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**Graph 1: ZCore clean water flow rate based on a 10 in length filter**

### quality

ZCore filters are manufactured under a quality management system that has been certified to meet ISO 9001 standards. Each filter is assigned a lot code to ensure traceability of the data and materials used in the manufacturing process.

### certifications

- U.S. FDA 21CFR 177.1520 food contact requirements
- Article 3 of the EU Framework Regulation No. 1935/2004/EC safety requirements
- EU Plastics Regulation No. 10/2011 (may be used as intended in all compliant EU Member states)
- USP class VI-121°C Plastics criteria
- NSF 61 criteria
- ISO 9001 criteria

SUEZ filter cartridges are designed and manufactured for resistance to a wide range of chemical solutions. Conditions will vary with each application and users should carefully verify chemical compatibility. Please contact your SUEZ representative for more information.

### ordering information

Replace the numbers with your desired values from each column. Columns 3, 4, and 5 are optional depending on the desired configuration.

**Example:** ZCore 05-40-XX



**Table 3: Ordering information**

	1		2	3		4		5
Type	Micron Rating (nominal)		Cartridge Length	End #1 Adapter		End #2 Adapter		Elastomer Material
ZCore	95 = 0.5 μm	30 = 30 μm	10 in (25.4 cm)		E = 222 O-Ring		H = Fin	B = Buna
	01 = 1 μm	40 = 40 μm	20 in (50.8 cm)		F = 226 O-Ring		K = Self Seal Spring	E = EPDM
	03 = 3 μm	50 = 50 μm	30 in (76.2 cm)		L = Extended Core		S = Closed End Cap	P = Santoprene <sup>2</sup> (flat gasket only)
	05 = 5 μm	75 = 75 μm	40 in (101.6 cm)		X = Standard Plain End (no gasket)		X = Standard Plain End (no gasket)	S = Silicone
	07 = 7 μm	100 = 100 μm	<i>Longer lengths up to 70 in may be available upon request</i>		Y = Flat Gasket		Y = Flat Gasket	V = Viton <sup>1</sup>
	10 = 10 μm	120 = 120 μm						
	15 = 15 μm	150 = 150 μm						
	20 = 20 μm	200 = 200 μm						
25 = 25 μm								

<sup>1</sup>Viton is a registered mark of DuPont

<sup>2</sup>Santoprene is licensed to Advanced Elastomer Systems, L.P.

<sup>3</sup>Absolute-rated filters have been designed and tested to reject at least 99% of particles of the listed micron size. Nominal-rated filters have a wider distribution of pore sizes and therefore a wider distribution of rejected particle sizes. The nominal rating is primarily used to compare efficiencies across a filter family and between filter manufacturers. Efficiency is dependent on particle shape, size, composition, application, and testing protocol.

