

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

Water Technologies & Solutions fact sheet

specifications

Table 1: Specifications and performance information

Ratings	0.5, 1, 3, 5, 7, 10, 15, 20, 25, 30, 40, 50, 75, 100, 120, 150, 200 microns (nominal)	
Inner Diameter		1.1 in (2.79 cm)
Outer Diameter	0.5-3 micron	2.75 in (6.99 cm)
	5-200 micron	2.55 in (6.48 cm)
Lengths	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>	
Materials of Construction	Filter Media	Polypropylene
	Adapters	Polypropylene
	Elastomer	Buna, EPDM, Silicone, Viton ¹ Santoprene ² (flat gasket only)

Performance Conditions

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:

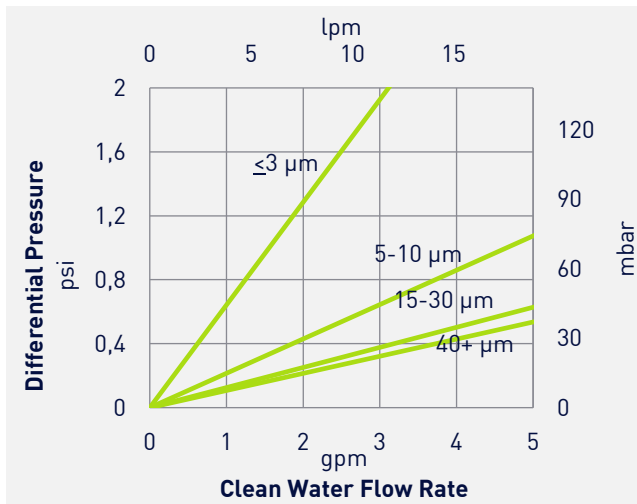
35 psid (2.4 bar) @ 77°F (25°C)

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 efficiency³



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 ² (flat gasket only)
	05 = 5 μm	75 = 75 μm	40 in (101.6 cm)		X = Standard Plain End (no gasket)		Y = Flat 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 ¹
	10 = 10 μm	120 = 120 μm						
	15 = 15 μm	150 = 150 μm						
	20 = 20 μm	200 = 200 μm						
25 = 25 μm								

¹Viton is a registered mark of DuPont

²Santoprene is licensed to Advanced Elastomer Systems, L.P.

³Absolute-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.



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