

# Purtrex\*

## melt blown depth filter for general industrial use

## Water Technologies & Solutions fact sheet



### features and benefits

- Exceptional value for general applications
- Progressive graded density captures particles throughout the entire filter
- Long life and lower change-out frequency
- Exceptional dirt holding capacity
- Pure polypropylene construction
- No wetting agents, solvents, antistatic agents, or binders

### applications

- General industrial use
- Potable water filtration
- Chemical filtration
- Plating baths
- Amine filtration

### specifications

**Table 1: Specifications and performance information**

<b>Ratings</b>	1, 3, 5, 10, 20, 30, 50, 75 microns (nominal)	
<b>Inner Diameter (nominal)</b>	1 in (2.5 cm)	
<b>Outer Diameter</b>	2.5 in (6.4 cm)	
<b>Lengths</b>		
	9 3/4 in (24.8 cm)	29 1/4 in (74.3 cm)
	10 in (25.4 cm)	30 in (76.2 cm)
	19 1/2 in (49.5 cm)	40 in (101.6 cm)
	20 in (50.8 cm)	50 in (152.4 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 <sup>1</sup> , Santoprene <sup>2</sup> (flat gasket only)

#### Performance Conditions

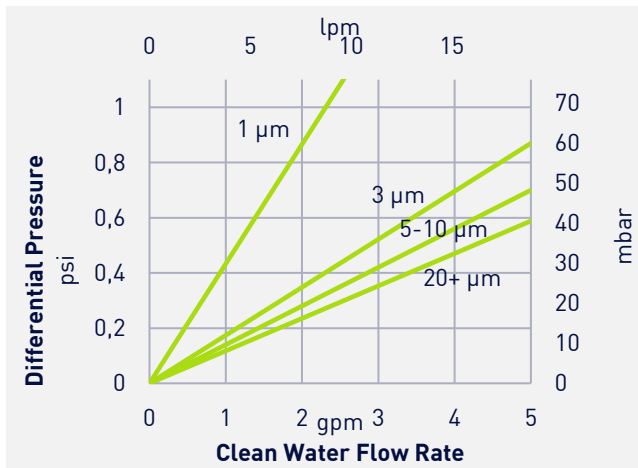
Maximum pressure drop:	35 psid (2.4 bar) @ 100°F (38°C)
Recommended change-out pressure drop:	20 psid (1.4 bar) @ 77°F (25°C)

### efficiency information

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

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

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



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

### quality

Purtrex 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 compliant EU Member states)
- USP class VI-121°C Plastics criteria
- NSF 42 and 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. Use “-B” if you would like bulk packaging.

**Example:** PX 05-40-EHB



**Table 3: Ordering information**

	1	2	3	4	5
Type	Micron Rating (nominal)	Cartridge Length	End #1 Adapter	End #2 Adapter	Elastomer Material
PX	01 = 1 µm	9 3/4 in (24.8 cm)	E = 222 O-Ring	H = Fin	B = Buna E = EPDM P = Santoprene <sup>2</sup> (flat gasket only) S = Silicone V = Viton <sup>1</sup>
	03 = 3 µm	10 in (25.4 cm)	L = Extended Core	K = Self Seal Spring	
	05 = 5 µm	19 1/2 in (49.5 cm)	X = Standard Plain End (no gasket)	S = Solid End	
	10 = 10 µm	20 in (50.8 cm)	Y = Flat Gasket	Y = Flat gasket	
	20 = 20 µm	29 1/4 in (74.3 cm)			
	30 = 30 µm	30 in (76.2 cm)			
	50 = 50 µm	40 in (101.6 cm)			
	75 = 75 µm	50 in (152.4 cm)			
		<i>Longer lengths up to 70 in may be available upon request</i>			

<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.



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# Certificate of Approval

This is to certify that the Management System of:

## SUEZ Water Technologies & Solutions

3600 Horizon Boulevard, Trevoise, PA, 19053, United States

has been approved by LRQA to the following standards:

**ISO 9001:2015, ISO 14001:2015**

Approval number(s): ISO 9001 – 0011964, ISO 14001 – 00023378

This certificate is valid only in association with the certificate schedule bearing the same number on which the locations applicable to this approval are listed.

**The scope of this approval is applicable to:**

Research & Development, Sales, Onsite Product and Application Support, Commercial Operations, Customer Care, Design, Engineering, Project Management, Procurement, Manufacturing, Assembly, Warehousing, Installation, Commissioning, Laboratory Analysis, Remote Technical Support, Field Service and Support, Remote Monitoring, Diagnostics and Analytics, Water Treatment Equipment, Mobile Water Treatment Equipment, Pilot Equipment, Operation and Maintenance of Water Treatment Plants, Biosolids Treatment, Analytical Laboratory Process Control Instruments, Distribution of Analytical Reagents and Reference Standards, Manufacture and Distribution of Water Treatment Chemicals as Applicable to the Following Industries: Chemical Processing, Facilities, Refining, Food & Beverage, Microelectronics, Metals & Mining, Municipal, Pharma & Life Sciences, Power, Pulp & Paper, Upstream Oil & Gas and others in need of Water and Process Treatment Solutions.

**Cliff Muckleroy**

Area Operations Manager Americas

Issued by: Lloyd's Register Quality Assurance, Inc.

for and on behalf of: Lloyd's Register Quality Assurance Limited



# Certificate Schedule

Location	Activities
<p><b>Head Office</b> 3600 Horizon Boulevard, Trevose, PA, 19053, United States</p>	<p><b>ISO 9001:2015</b> HQ Functions include Sales, Commercial Operations, Customer Care, Procurement, Remote Technical Support, Field Service and Support.</p> <p>The Service Reliability Center Provides Remote Monitoring and Diagnostics of Customer Processes.</p>
<p>333 South Lombard Road, Addison, IL, 60101, United States</p>	<p><b>ISO 9001:2015</b> Chemical Monitoring Solutions Activities includes Manufacture and Distribution of Chemicals.</p> <p><b>ISO 14001:2015</b> Manufacture of Water and Process Treatment Chemicals.</p>
<p>10991 Leadbetter Road, Ashland, VA, 23005, United States</p>	<p><b>ISO 9001:2015</b> Research &amp; Development, Onsite Product and Application Support, Warehousing, Laboratory Analysis, Field Service and Lifecycle Support, Water Treatment Equipment, Mobile Pilot Water Treatment Equipment, and Biosolids Treatment.</p>



# Certificate Schedule

Location	Activities
10989 Leadbetter Road, Ashland, VA, 23005, United States	<b>ISO 9001:2015</b> Warehouse.
3050 Pegasus Road, Bakersfield, CA, 93308, United States	<b>ISO 9001:2015</b> Chemical Monitoring Solutions Activities includes Manufacture and Distribution of Chemicals.
	<b>ISO 14001:2015</b> Manufacture of Water and Process Treatment Chemicals.
4200 Oscar Nelson Jr Drive, Baytown, TX, 77520, United States	<b>ISO 9001:2015</b> The Installation, Servicing and Operation of Water Treatment Systems for Industrial Applications.
10658 Highway 90 West, Beaumont, TX, 77713, United States	<b>ISO 9001:2015</b> Chemical Monitoring Solutions Activities includes Manufacture and Distribution of Chemicals.
	<b>ISO 14001:2015</b> Manufacture of Water and Process Treatment Chemicals.
3006 Northup Way, Suite 200, Bellevue, WA, 98004, United States	<b>ISO 9001:2015</b> Sales, Onsite Product and Application Support, Commercial Operations, Design, Engineering, Project Management, Procurement, Installation, Commissioning, Field Service and Support, Water Treatment Equipment and Biosolids Treatment.
3600 Progress Drive, Suite 300, Bensalem, PA, 19020, United States	<b>ISO 9001:2015</b> Warehouse and Distribution of Chemicals.



# Certificate Schedule

Location	Activities
<b>SUEZ Water Technologies &amp; Solutions Analytical Instruments</b> 6060 Spine Road, Boulder, CO, 80301, United States	<b>ISO 9001:2015</b> The Design, Development, Production, Servicing and Distribution of Analytical Laboratory and Process Control Instruments, Including Manufacture of Analytical Reagents and Reference Standards.
405 School Street, East Hartford, CT, 06108, United States	<b>ISO 9001:2015</b> The Installation, Servicing and Operation of Water Treatment Systems for Industrial Applications.
<b>Fontana Service Center</b> 11689 Pacific Avenue, Fontana, CA, 92337, United States	<b>ISO 9001:2015</b> The Installation, Servicing and Operation of Water Treatment Systems for Industrial Applications.
5951 Clearwater Drive, Minnetonka, MN, 55343, United States	<b>ISO 9001:2015</b> Design and Manufacture of Filters, Membranes and Equipment for Water, Wastewater Treatment and Desalination Systems. Service Activities Includes Provision of Technical Support to Suez Water Technologies & Solutions Customers.
2118 Reiser Avenue South East, New Philadelphia, OH, 44663, United States	<b>ISO 9001:2015</b> Chemical Monitoring Solutions Activities includes Manufacture and Distribution of Chemicals.
	<b>ISO 14001:2015</b> Manufacture of Water and Process Treatment Chemicals.



# Certificate Schedule

Location	Activities
<p><b>Norfolk Service Center</b> 4545 Patent Road, Norfolk, VA, 23502, United States</p>	<p><b>ISO 9001:2015</b> Sales, Execution / Delivery of Services such as Operation, Maintenance and Installation of Water Treatment Facilities and Mobile Units for Water Treatment. Remote Technical Support, Field Service and Support, Execution of Shared Services Instrumentation, Technical Support, Field Support, and Remote Monitoring.</p>
<p>3901 Williams Drive, Orange, TX, 77630, United States</p>	<p><b>ISO 9001:2015</b> Research &amp; Development, Sales, Onsite Product and Application Support, Commercial Operations, Customer Care, Design, Engineering, Project Management, Procurement, Manufacturing, Assembly, Warehousing, Installation, Commissioning, Laboratory Analysis, Remote Technical Support, Field Service and Support, Remote Monitoring, Diagnostics and Analytics, Water Treatment Equipment, Mobile Water Treatment Equipment, Pilot Equipment, Operation and Maintenance of Water Treatment Plants, Biosolids Treatment, Analytical Laboratory Process Control Instruments, Distribution of Analytical Reagents and Reference Standards, Manufacture and Distribution of Water Treatment Chemicals as Applicable to the Following Industries: Chemical Processing, Facilities, Refining, Food &amp; Beverage, Microelectronics, Metals &amp; Mining, Municipal, Pharma &amp; Life Sciences, Power, Pulp &amp; Paper, Upstream Oil &amp; Gas and others in need of Water and Process Treatment Solutions.</p> <p><b>ISO 14001:2015</b> Manufacture of Water and Process Treatment Chemicals.</p>



# Certificate Schedule

Location	Activities
<b>Phoenix Service Center</b> 4101 East Wood Street, Phoenix, AZ, 85040, United States	<b>ISO 9001:2015</b> The Installation, Servicing and Operation of Water Treatment Systems for Industrial Applications.
<b>Pico Rivera Service Center</b> 7777 Industry Avenue, Pico Rivera, CA, 90660, United States	<b>ISO 9001:2015</b> The Installation, Servicing and Operation of Water Treatment Systems for Industrial Applications.
4880 Cox Road, Suite 101, Glen Allen, VA, 23060, United States	<b>ISO 9001:2015</b> Research & Development, Sales, Onsite Product and Application Support, Commercial Operations, Customer Care, Design, Engineering, Project Management, Procurement, Installation, Commissioning, Field Service and Support, Water Treatment Equipment, and Biosolids Treatment.
<b>Saint Peters Service Center</b> No. 2 Arrowhead Industrial Boulevard, Saint Peters, MO, 63376, United States	<b>ISO 9001:2015</b> The Installation, Servicing and Operation of Water Treatment Systems for Industrial Applications.
<b>San Jose Service Center</b> 5900 Silver Creek Valley Road, San Jose, CA, 95138, United States	<b>ISO 9001:2015</b> The Assembly, Installation, Servicing and Operation of Water Treatment Systems for Industrial Applications.
21222 Spell Circle, Tomball, TX, 77375, United States	<b>ISO 9001:2015</b> Laboratory and Analytical Services for Water and Process System Solutions.
Bonaventure Industrial Park, 13030 148th Street, Edmonton, Alberta, T5L 2H8, Canada	<b>ISO 9001:2015</b> Chemical Monitoring Solutions Activities includes Manufacture and Distribution of Chemicals.





# Certificate Schedule

Location	Activities
	<p><b>ISO 14001:2015</b> Manufacture of Water and Process Treatment Chemicals.</p>
<p>29 Royal Road, Guelph, N1H 1G2, Ontario, Canada</p>	<p><b>ISO 9001:2015</b> Manufacture of Equipment for Water, Wastewater Treatment Processes.</p>
<p>1145 rue Jean-Marchand, Levis, G6Y 9G5, QUE, Canada</p>	<p><b>ISO 9001:2015</b> Research &amp; Development, Sales, Onsite Product and Application Support, Commercial Operations, Customer Care, Design, Engineering, Project Management, Procurement, Manufacturing, Assembly, Warehousing, Installation, Commissioning, Laboratory Analysis, Field Service and Lifecycle Support, Water Treatment Equipment, Mobile Pilot Water Treatment Equipment.</p>
<p>3239 Dundas Street West, Oakville, L6M 4B2, Canada</p>	<p><b>ISO 9001:2015</b> Research &amp; Development, Sales, Onsite Product and Application Support, Commercial Operations, Customer Care, Design, Engineering, Project Management, Procurement, Manufacturing, Warehousing, Installation, Commissioning, Remote Technical Support, Field Service and Support, Remote Monitoring, Diagnostics and Analytics, Water Treatment Equipment, Mobile Pilot Water Treatment Equipment, Operation and Maintenance of Water Treatment Plants, and Biosolids Treatment.</p>



# Certificate Schedule

Location	Activities
4636 Somerton Road, Trevoise, PA, 19053, United States	<p><b>ISO 9001:2015</b> Research &amp; Development Laboratory &amp; Analytical Services for Water Process Solutions. Product Quality Control &amp; Application Support Manufacturing -Pilot Plant.</p> <p><b>ISO 14001:2015</b> Lab Supply - Manufacture of Water and Process Treatment Chemicals including Water Test Kits, Reagents and Treatment Chemical Control Systems.</p>



# Certificate of Approval

This is to certify that the Management System of:

## Suez Water Purification Systems Ltd

Bandet Way, Thame, OX9 3SJ, United Kingdom

has been approved by LRQA to the following standards:

ISO 14001:2015



David Derrick - Area Operations Manager UK & Ireland

Issued by: Lloyd's Register Quality Assurance Limited

Current issue date: 2 August 2019  
Expiry date: 1 August 2022  
Certificate identity number: 10209477

Original approval(s):  
ISO 14001 – 2 August 2019

Approval number(s): ISO 14001 – 00021555

The scope of this approval is applicable to:

Design, manufacture, sale, installation, commissioning, service and distribution of water treatment systems, equipment and products. For industrial, scientific, laboratory medical and healthcare sectors. Technical support and training services.



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