

MATRIKX® Pb1

Extruded Activated Carbon Block Filter



The Premier Performer

- **Lead Reduction: 2,500 gallons @ 0.75 GPM**
- **Cyst Reduction: Giardia, Cryptosporidium**
- **≥ 99.96% reduction of 1 - 2 μm particulates**
- **≥ 99.984%+ reduction of 3 - 4 μm particulates**
- **Class 1 Turbidity Reduction**
- **Outstanding Chlorine, Taste and Odor Reduction**

MATRIKX® Pb1 is a powerful, multifunctional filter cartridge for residential and commercial water purification systems.

Heavy Metals Reduction

MATRIKX Pb1 extruded activated carbon filters reduce soluble lead using an ion-exchange filter medium with high specificity for soluble lead. Particulate filtration is used to intercept insoluble lead-containing particles. Standard 2.50" O.D. x 9.75" L filters will reduce lead, meeting the NSF test protocol for over 2,500 gallons when operating at a flow of 0.75 GPM.

Chemical Adsorption

MATRIKX Pb1 filters offer high levels of chemical reduction in potable drinking water, including chlorine and other compounds that contribute to taste and odor.

Particulate, Cyst and Turbidity Reduction

MATRIKX Pb1 filters provide ≥ 99.984% reduction of 3-4 μm particulates, ≥ 99.96% reduction of 1-2 μm particulates, and are high performance sediment filters with extended life. Graded-density prefiltration combined with high dirt capacity extruded activated carbon provide several times greater life than molded filters.

For more detailed information, please refer to the Technical Data Bulletin for this product.



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Particulate Reduction: ≥ 99.96% @ 1 - 2 μm = Lead = Cyst = Chlorine

Filter Dimensions	2.50" O.D. x 1.25" I.D. x 10" L
Chlorine Reduction >90%	6,000 gallons @ 0.75 GPM
Chloroform Reduction	Not Recommended for this contaminant
Lead Reduction >90%	2,500 gallons @ 0.75 GPM
Cyst Reduction	≥ 99.984% reduction of 3 - 4 μm
Initial ΔP	4.0 psid @ 0.75 GPM
Carbon Weight	0.85 lbs
Construction	Precision Continuous Extrusion
Carbon Type	Steam Activated, Acid Washed
Carbon Source	Bihuminous Coal

* Additional filter performance data by size on reverse side

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Technical Specifications and Order Information

Part No.	O.D. x Length	Filter Weight ¹	Chlorine Capacity @ Flow ¹	µm Rating ¹	Lead Reduction Capacity @ Flow ¹	Initial ΔP @ Flow
06-250-125-050	2.50" x 5.00"	0.45 lb	>2,500 gal @ 0.50 GPM	1-2 µm	1,250 gal @ 0.50 GPM	5.0 psid @ 0.38 GPM
06-250-125-975	2.50" x 9.75"	0.85 lb	>6,000 gal @ 0.75 GPM	1-2 µm	2,500 gal @ 0.75 GPM	4.0 psid @ 0.75 GPM
06-250-125-20	2.50" x 20"	1.95 lb	>12,000 gal @ 1.50 GPM	1-2 µm	5,000 gal @ 1.50 GPM	4.0 psid @ 1.50 GPM
06-425-200-975	4.25" x 9.75"	3.20 lb	>20,000 gal @ 2.50 GPM	1-2 µm	8,000 gal @ 1.50 GPM	7.0 psid @ 2.50 GPM
06-425-200-20	4.25" x 20"	6.60 lb	>42,000 gal @ 5.00 GPM	1-2 µm	17,000 gal @ 1.50 GPM	6.5 psid @ 5.00 GPM

ORDER INFORMATION

Special order filters are available in varying sizes with lengths from 1" to 60".

Standard filters are finished with an outer polypropylene spun-bonded prefiltration medium overlying a second polypropylene melt-blown prefiltration medium. A protective polypropylene netting is applied to the exterior of the cartridge. Polypropylene end caps with compression gaskets fitting most standard housings are standard.

Inquire about alternative filter finishing options, including alternative end cap and housing interface styles; a wide range of non-standard extruded filter sizes; and non-standard prefiltration systems.

EXTRUDED CARBON = EXCEPTIONAL VALUE

MATRIKX Pb1 filters consist of activated carbon particles fused into a uniform block with enhanced adsorptive capacity and efficiency. MATRIKX Pb1 filters flow in a radial, outside-to-inside direction, providing increased dirt capacity and low pressure drop. Unlike granular activated carbon (GAC) filters, MATRIKX Pb1 cartridges will not channel or bypass, due to the extreme uniformity of their extruded activated carbon core. Service life of the MATRIKX Pb1 filter is greatly extended by two layers of prefiltration media consisting of a 15 µm polypropylene spun-bonded outer prefiltration layer and a 5 µm polypropylene melt-blown inner layer.

- No Channeling •No Fluidizing •No Bypassing
- Eliminates release of carbon fines
- Lowest extractables, pure materials of construction
- Maximum service life and resistance to fouling
- Graded density prefiltration design
- Manufactured using FDA-approved materials



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LIMITATION OF LIABILITY

Seller makes no warranties of any kind, expressed or implied concerning this product, including warranties of merchantability or fitness for a particular purpose, except that this product should be capable of performing as described in the appropriate product data sheet. Seller's obligation for this product's performance below specifications shall be limited solely to the refund of purchase price or replacement of product proven defective, at Seller's sole discretion. Determination of suitability of product for uses and applications contemplated by Buyer shall be the sole responsibility of Buyer. Use of this product constitutes Buyer's acceptance of this Limited Liability.

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NOTES

1. Performance of a given MATRIKX extruded carbon filter varies in direct proportion to the total weight of carbon in each filter. For example, a 4.25" O.D. x 20" L MATRIKX filter contains approximately seven times as much activated carbon as a 2.50" O.D. x 10" L MATRIKX filter, and will therefore have seven times the rated chlorine and lead-adsorption capacities when operating at seven times the rated flow of the smaller cartridge. Hence, rated flow is based on maintaining identical contact/residence times for all filters.
2. Chlorine capacity is the estimated capacity in gallons during which the filter will remove >95% of influent chlorine (2 ppm) when operating at a given flow.
3. Particulate rating is for ≥99.96% at 1 - 2 µm.
4. Lead reduction capacity in gallons to obtain ≥90% removal of influent lead (150 ppb influent) at a given flow and at a pH of 6.5-8.5, in accordance with NSF International protocol.

WARNINGS

Maximum Operating Temperature:	125°F
Maximum Operating Pressure:	250 psig
Maximum Differential Pressure:	100 psid
Collapse Pressure:	200 psid

MATRIKX filters are not to be autoclaved or steam sterilized.

Use MATRIKX carbon filters only with microbiologically safe water. Activated carbon filters are not designed to kill or remove bacteria or viruses.

Actual results obtained will vary with various combinations of organic contaminants, changes in pH and other conditions encountered in actual use.

All information presented here is based on data believed to be reliable. It is offered for evaluation and verification, but is not to be considered a warranty of any kind.

MATRIKX filters are designed to fit most standard household and commercial or industrial housings.

Call KX Industries to check filter housing compatibility.