



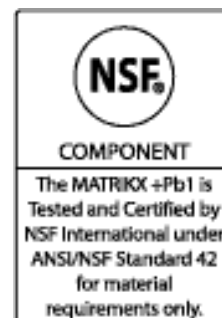
KX Industries, L.P.

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## TECHNICAL DATA: MATRIKX® Pb1

### The Premier Performer

- 0.5 µm Nominal Filtration
- Lead Reduction: 2,500 gallons @ 0.75 GPM
- Cyst Reduction: Giardia, Cryptosporidium
- Class 1 Turbidity Reduction
- Outstanding Chlorine, Taste and Odor Reduction
- Performance Tested and Verified by Independent Laboratory Testing



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

#### Heavy Metals Reduction

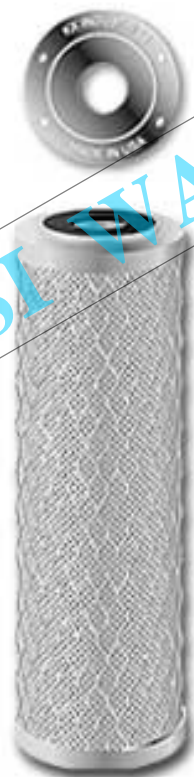
MATRIKX® + Pb1 extruded activated carbon filters reduce soluble lead using an ion-exchange filter medium with high specificity for soluble lead. Particulate filtration is used to intercept insoluble lead-containing particles. Standard 2.50" O.D. x 9.75" L filters will reduce lead, meeting the performance requirements of NSF Standard 53 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 >99.98% 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.



## TECHNICAL SPECIFICATIONS AND ORDER INFORMATION – DOWNLOAD TECHNICAL BROCHURE

PART NUMBER	O.D. x Length	WEIGHT	CHLORINE CAPACITY	NOMINAL $\mu\text{m}$ RATING	LEAD REDUCTION	INITIAL $\Delta\text{P}$ @ FLOW
06-250-125-975	2.50" x 9.75"	0.85 lb	>6,000 gal @ 0.75 GPM	0.5 $\mu\text{m}$	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	0.5 $\mu\text{m}$	5,000 gal. @ 1.50 GPM	4.0 psid @ 1.5 GPM
06-425-200-975	4.25" x 9.75"	3.20 lb	>20,000 gal @ 2.50 GPM	0.5 $\mu\text{m}$	8,000 gal. @ 2.50 GPM	7.0 psid @ 2.5 GPM
06-425-200-20	4.25" x 20"	6.60 lb	>42,000 gal @ 5.00 GPM	0.5 $\mu\text{m}$	17,000 gal. @ 5.00 GPM	6.5 psid @ 5.0 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 spunbonded 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 fit most standard housings.

Inquire concerning 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  $\mu\text{m}$  polypropylene spunbonded outer prefiltration layer and a 5  $\mu\text{m}$  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-compliant materials

### NOTES

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 9.75" L MATRIKX® filter, and will therefore have seven times the rated chlorine and lead-adsorption capacities when operated at seven times the rated flow of the smaller cartridge. Hence, rated flow is based on maintaining identical contact/residence times for all filters.

Chlorine capacity is the capacity in gallons during which the filter will remove > 95% of influent free available chlorine (2 ppm) when operating at a given flow and has been tested using the NSF Standard 42 protocol for chlorine reduction.

Nominal particulate rating (0.5  $\mu\text{m}$ ) is for >85% of a given size as determined from single-pass particle counting results.\*

Absolute particulate rating (1  $\mu\text{m}$ ) is for >99.9% of particles of a given size as determined from single-pass particle counting results.\*\*

\*Nominal Filter Rating: Filter rating indicating the approximate size particle, the majority of which will not pass through the filter. It is generally interpreted as meaning that 85% of the particles of the size equal to the nominal micron rating will be retained by the filter. (WQA Glossary of Terms, Third Edition, 3-97).

\*\*Absolute Filter Rating: Filter rating meaning that 99.9% (or essentially all) of the particles larger than a specific micron rating will be trapped on or within the filter. (WQA Glossary of Terms, Third Edition, 3-97)

## 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 and adequately disinfected 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 or 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.

[Contact KX Industries](#) to check filter housing compatibility.

This cartridge must be placed in an appropriate housing and flushed for a minimum of 5 minutes prior to use. Use only with microbiologically safe and adequately disinfected water.

## LIMITED LIABILITY

SELLER MAKES NO WARRANTIES OF ANY KIND, EXPRESSED OR IMPLIED, CONCERNING THIS PRODUCT, INCLUDING WARRANTIES OF THE MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, EXCEPT THAT THIS PRODUCT SHOULD BE CAPABLE OF PERFORMING AS DESCRIBED IN THIS PRODUCT DATA SHEET. SELLER'S OBLIGATION SHALL BE LIMITED SOLELY TO REFUND OF PURCHASE PRICE OR REPLACEMENT OF PRODUCT PROVED 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.

This product is made in accordance with or covered under one or more of the following United States patents: 5,019,311; 5,147,722; 5,189,092; 5,249,948; 5,331,037; 5,922,803; 5,946,342; 6,061,384 and corresponding patents in other countries.

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