

MATRIKX® CR1

Extruded Activated Carbon Block Filter



Chlorine and Cyst Reduction

- **1 μm Filtration**
- **Cyst Reduction: Giardia & Cryptosporidium**
- **NSF Class 1 Turbidity Reduction**
- **10,000 Gallons Class 1 Chlorine Reduction
>99% @ 2.5 gpm**

MATRIKX® CR1 is the most effective filter available for the combined reduction of cysts and control of large volumes and concentrations of free chlorine. Manufactured using a patented, solid-state extrusion process, the MATRIKX CR1 meets NSF Standard 53 for Class 1 Turbidity and Cyst reduction, including *Giardia* and *Cryptosporidium*.

Made of "Genuine MATRIKX Extruded Carbon," the MATRIKX CR1 is a rigid, carbon block composite designed to deliver NSF Class 1 Chlorine reduction at >99% @ 2.5 gpm for 10,000 gallons. The MATRIKX CR1 is ideal for use in food service applications.

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

Performance Specifications*

MATRIKX® CR1

Particulate Rating:
1 μm



= Cysts



= Chlorine

| | |
|--------------------------|---------------------------------|
| Filter Dimensions | 2.50" OD x 9.75" L |
| Chlorine Reduction >99% | 10,000 gallons @ 2.5 gpm |
| Cyst Reduction | >99.95% @ 3-4 μm |
| Initial ΔP | 8.0 psid @ 1.0 gpm |
| Construction | Precision Continuous Extrusion |
| Carbon Type | Steam Activated, Acid Washed |
| Carbon Source | Bituminous Coal & Coconut Shell |

*Additional filter performance data by size on reverse side



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Technical Specifications and Order Information

| Part No. | O.D. x Length | Chlorine Capacity @ Flow ¹ | µm Rating ² | Initial ΔP @ Flow |
|----------------|---------------|---------------------------------------|------------------------|--------------------|
| 19-250-125-975 | 2.50" x 9.75" | >10,000 gal. @ 2.5 gpm | 1 µm | 8.0 psid @ 1.0 gpm |
| 19-250-125-20 | 2.50" x 20" | >20,000 gal. @ 5 gpm | 1 µm | 8.0 psid @ 2.0 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 spun-bonded prefiltration medium. A protective polypropylene netting is applied to the exterior of the cartridge. Polypropylene end caps with compression gaskets fitting most standard industrial 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 CR1 filters consist of activated carbon particles fused into a uniform block with enhanced adsorptive capacity and efficiency. MATRIKX CR1 filters flow in a radial, outside-to-inside direction, providing increased dirt capacity and low pressure drop. Unlike granular activated carbon (GAC) filters, MATRIKX CR1 cartridges will not channel or bypass, due to the extreme uniformity of their extruded activated carbon core. Service life of the MATRIKX CR1 filter is greatly extended by a layer of 15 µm polypropylene spun-bonded prefiltration medium and a second layer of 5 µm polypropylene melt blown filter medium.

- No channeling • No fluidizing • No bypassing
- Eliminates release of carbon fines
- Protective fines filter
- Lowest extractables, pure materials of construction
- Maximum service life, resistance to fouling
- 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. Chlorine capacity is the capacity in gallons during which the filter will remove greater than 99% of the influent free chlorine (2 ppm) when operating at a given flow.
2. Particulate rating is for >99% removal of particles of a given size as determined from particle counting results.

Flushing Protocol: The MATRIKX CR1 should be flushed for 10 minutes prior to use.

The MATRIKX® CR1 has been tested to meet the material requirements of NSF Standards 42, 53 and 58.

The MATRIKX CR1 has been tested to meet the performance requirements of NSF Standard 42 for Class 1 Chlorine reduction and Standard 53 for Class 1 Turbidity and Cyst reduction.

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 or other conditions encountered in actual use.

All information presented 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.