

KX COT Matrix® Extruded Activated Carbon Block Filter Cartridge

FLOWRITE



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KX Matrix® Extruded Activated Carbon Block Filter Cartridge

Patented extrusion process produces an activated carbon filter with superior ability to adsorb chlorine, taste, odour, organics, and colour components.

Features & Benefits

- High adsorptive capacity and efficiency
- More carbon at lower pressure drop than granular carbon
- Outer melt blown wrap provides particulate removal capability
- Minimal release of carbon fines
- No channelling, fluidising or bypass
- Performance tested and verified by independent laboratory
- Manufactured using FDA listed materials of construction
- NSF Components (Standard 42)

Filter Specifications	
End Caps	Polypropylene
End Caps Adhesive	Low Density Polyethylene
End Configuration	Double Open End
Gaskets	Santoprene
Binder	Polyethylene
Outer Wrap	Melt Blown
Netting	Polypropylene
Length	248mm (9¾") or 508mm
Product Code	COT+975 or COT+20
Micron Rating	5-micron nominal
Type Carbon	Bituminous (Coal)
Outside Diameter	68mm (2.7")
Cyst Reduction Capability	No

Operating Parameters	
Maximum Operating	52°C (125°F)
Maximum Differential	689 kPa (100psid)
Maximum Operating	1720 kPa (250psid)
Collapse Pressure	1379 kPa (200psid)
Steam/Autoclave	Do not steam or
Flush	For minimum of 5

Operating Data
Each 9¾" cartridge is designed for a flow of 3.5 lpm. Since prolonged contact time can increase adsorption efficiency, it may be necessary to reduce recommended flow to increase efficiency.

Performance		
Cartridge Size	Chlorine, Taste & Odour Reduction	Initial Differential Pressure at Flow
9¾"	Max 23.000 litres at 3.5 lpm	13.8 kPa
20"	Max 46.000 litres at 7.0 lpm	13.8 kPa

Applications

Drinking Water | Bottled Water | Soft Drinks | Chlorine, Colour, Taste and Odour reduction

Notes:

1. Projected chlorine, taste and odour reduction capacity when tested in accordance with NSF / ANSI Standard 42 protocol.
2. Nominal particulate rating is for >85% of a given size as determined from single pass particle counting results.
3. Performance of a Matrikx extruded carbon filter varies in direct proportion to the total weight of carbon in the filter. For example, a 20" long Matrikx filter contains approx two times as much activated carbon as a 9¾" long filter, and will therefore have twice the rated chlorine, taste and odour capacity when operated at twice the rated flow of the smaller cartridge. Hence, rated flow rate is based on maintaining identical contact / residence time for all filters.
4. Use Matrikx carbon filters only with microbiologically safe and adequately disinfected water.
5. Matrikx cartridges reduce chlorine, taste and odour when operated as above. For total removal, it may be necessary to have multiple passes depending on the challenge.

