

Improving Health – Protecting the Environment

## Ahlstrom Disruptor® Nonwoven filter media



### Ahlstrom Disruptor®: Contaminant Removal Capability.

Disruptor® filter media removes a wide range of submicron particulates, organic acids, virus, bacteria, cysts, cell debris and trace pharmaceuticals with its naturally occurring electropositive charge. By accomplishing submicron "filtration" with a charge field rather than with mechanical pores, Disruptor® has a small fraction of the pressure drop and many times the flow rate when compared to ultrafiltration membranes having similar efficiency.

### Applications

Ahlstrom's unique Disruptor® can be considered as an alternative for membranes in many residential and commercial applications. These include point-of-entry and point-of-use devices such as: whole house filters; countertop, tap and under counter filters; ice machines, food and beverage preparation.

Disruptor® is an effective pre-filter to protect reverse osmosis membranes from biofouling. By reducing membrane biofouling, Disruptor® allows RO membranes to filter more water in less time while reducing the volume of reject water.

### Summary of Disruptor® Removal Capability.

Significant Removal	Some Removal	No or Minimal Removal
<p><b>Virus</b> (Polio, Norovirus, Rotavirus, etc.)</p> <p><b>Bacteria</b> (E. coli, Legionella, Pseudomonas, etc.)</p> <p><b>Cyst*</b></p> <p><b>Humic Acid</b></p> <p><b>Bromine (carbon)</b></p> <p><b>Chlorine (carbon)</b></p> <p><b>Iodine (carbon)</b></p> <p><b>Lead 8.5 pH*</b></p> <p><b>Ortho-phosphate</b></p> <p><b>PCBs</b></p> <p><b>BPA</b></p> <p><b>Penicillin G</b></p> <p><b>Flumenquine</b></p> <p><b>DNA.RNA</b></p> <p><b>Polysaccharides</b></p>	<p><b>Arsenic III 6.5 pH*</b></p> <p><b>Arsenic III 8.5 pH*</b></p> <p><b>Arsenic V 6.5 pH*</b></p> <p><b>Bromine (white)</b></p> <p><b>Ferrous Iron*</b></p> <p><b>Lead 6.5 pH*</b></p> <p><b>Soluble silica</b></p> <p><b>Trihalomethanes (THM)</b></p> <p><b>Chloramine*</b></p> <p><b>VOC*</b></p>	<p><b>Arsenic V 8.5 pH*</b></p> <p><b>Bromate</b></p> <p><b>Chromium VI</b></p> <p><b>Manganese nitrate</b></p> <p><b>Mercury 6.5 pH*</b></p> <p><b>Mercury 8.5 pH*</b></p> <p><b>NDMA</b></p> <p><b>Sulfate</b></p> <p><b>Geosmin</b></p>

All marked with\*:  
NSF concentration  
standard followed

## Disruptor® PAC

Ahlstrom Disruptor® PAC contains powdered activated carbon (PAC) with an average particle size of only 8 microns. Activated carbon at this particle size has a very high pore size to weight ratio which produces remarkably high dynamic adsorption.

## Health Safety and the Environment

Disruptor® is based on the naturally occurring element boehmite which has no known HSE issues. Boehmite has long been used as an additive to food products, digestive analgesics, industrial applications and as an adjuvant for human vaccines. Disruptor® media has passed testing to NSF/ANSI standard 61 for potable water contact, USP Class VI testing and endotoxin testing.

## Antimicrobial Statement Regarding Ahlstrom Disruptor® Products

Ahlstrom Disruptor® products can be treated with antimicrobial product protection. Materials utilizing naturally occurring silver are frequently used to protect products from bacterial and fungal growth. Such treatments are recognized in a broad range of regulatory requirements including EPA, FDA, NSF, USDA, European BPD and FSA. Such a use of silver is an environmentally intelligent treatment, allowing used filters to be disposed of in standard waste facilities. While antimicrobial product protection can prevent the growth of odor-causing microbes, protection is limited to the treated article. It does not further enhance the Ahlstrom Disruptor® filter's ability to protect against disease.

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