



Graver Technologies

Filtration | Separation | Purification

MetSorb® MOX-P Novel Adsorbent for Removal of Fluoride and Other Heavy Metals

Graver Technologies' MetSorb® MOX-P is supplied as a free-flowing powder (MOX-P), for contaminant adsorption as an additive in carbon block and non-woven media applications. The exceptional capacity and kinetics of Graver's MetSorb® MOX products, allow efficient reduction of fluoride and other contaminants with lower media mass requirements.

The patented technology utilizes high capacity sorption properties to selectively remove fluoride even in the presence of silica and other competing ions. MOX also has the ability to remove additional select heavy metals including arsenic. Fluoride reduction capacities as high as 80 mg/g have been demonstrated. In head-to-head tests with activated aluminum and bone char, MetSorb® MOX provides greater selectivity as well as greater capacity.

MetSorb® MOX represents an innovation in Metal Oxide technology with unique physical properties that provides exceptional performance characteristics.

Recommended Use

MOX-P is recommended for use in drinking water applications. The media can be integrated into carbon block and nonwoven filter cartridge media. MOX removes fluoride, arsenic and other oxyanions.

Features/Benefits

- Provides high capacity, selective removal of fluoride
- When compared to AA and Bone Char, MOX demonstrates superior capacity
- MOX is stable in pH relative to drinking water conditions, 6.5-8.5

Specifications

Analytical Parameter	Requirements	Units
Moisture	Value < 10	%
Arsenic Capacity (50 ppm)	>27	mg/g
Fluoride Capacity (30 ppm)	> 20	mg/g
*Bulk Density (g/cc)	0.52 +/- 5	g/cc
*Bulk Density (g/pt)	246 +/- 25	g/pt
Mean PSD (Lot Avg)	25 =< Value =< 75	um
Surface area	> 50	m ² /g

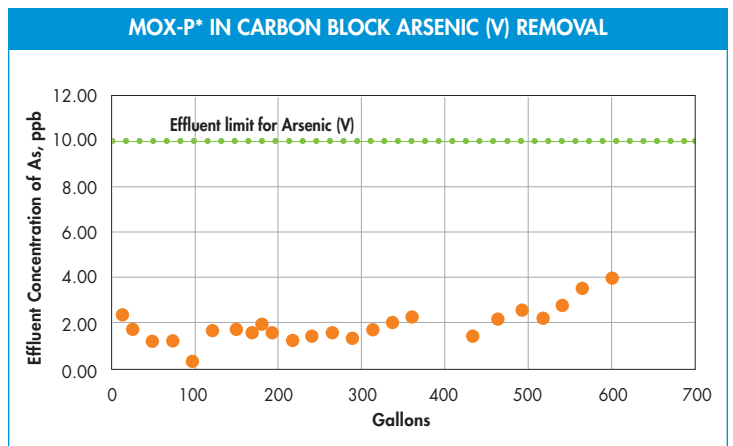
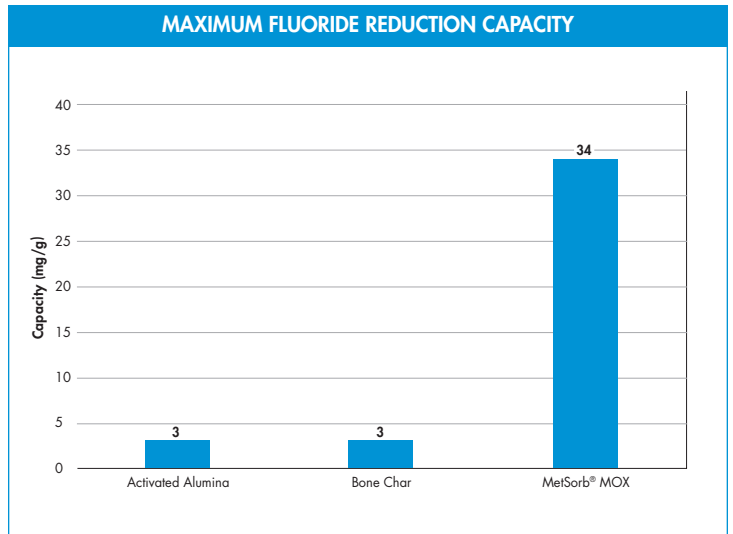
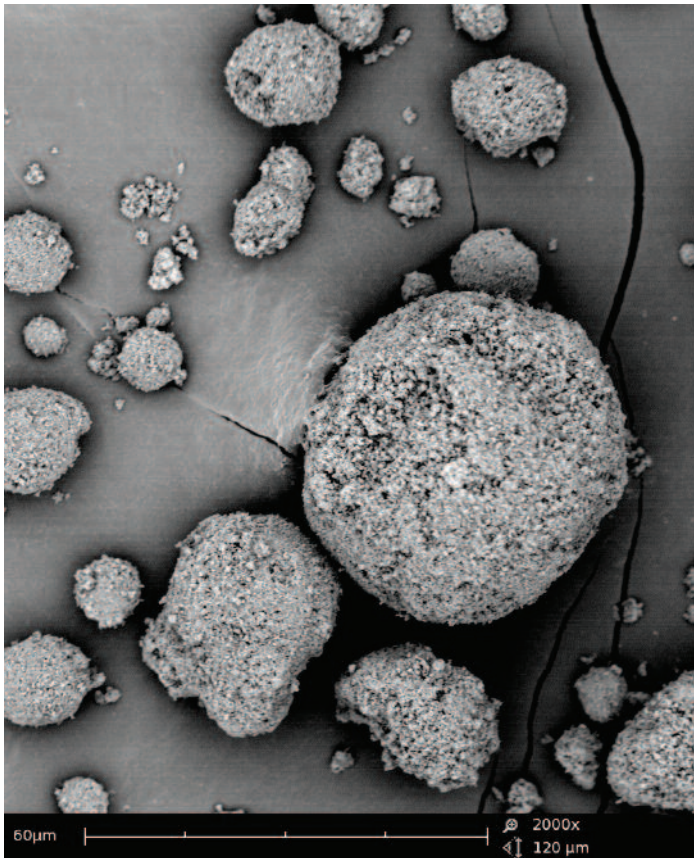


MOX-P is certified to NSF/ANSI 42 Standard.

- Protected under US Patents 10,449,533, 10,081,012 and other patents internationally.
- Developed and Manufactured by Graver Technologies in the United States of America

Targeted contaminants with % removal or capacities

Contaminant	Capacity (mg/g)
Fluoride	34
Arsenic	46



Arsenic reduction with a narrow diameter carbon block.
Targeted performance, 300 gallons.

For more information

MetSorb® MOX Customer Service: 1-800-533-6623



Graver Technologies

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Certified to NSF Standard 42

Member of:



American Water Works Association

The Authoritative Resource on Safe Water™

Water Quality Association

Rural Water Association

All information and recommendations appearing in this bulletin concerning the use of products described herein are based on tests believed to be reliable. However, it is the user's responsibility to determine the suitability for his own use of such products. Since the actual use by others is beyond our control, no guarantee, expressed or implied, is made by Graver Technologies as to the effects of such use or the results to be obtained. Graver Technologies assumes no liability arising out of the use by others of such products. Nor is the information herein to be construed as absolutely complete, since additional information may be necessary or desirable when particular or exceptional conditions or circumstances exist or because of applicable laws or government regulations.



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