

SEA-IX™

MicroSelect
CX-100

Heavy Metal Remover and Softening Media

Technical Data Sheet

SEA-IX™ MicroSelect is an inorganic silicate compound in a bead form. The compound has a negatively charged, internal crystalline lattice structure of exceptional strength and stability, with loosely bound cations that promote cation exchange. The interior channels or pores are 0.3 to 0.7 nanometers in diameter that act as a molecular sieve to selectively screen molecules according to size and exchangeable cations. Due to its negative internal matrix polarity, SEA-IX™ MicroSelect has high cation exchange affinity for ammonium (NH₄⁺) and dissolved heavy metals – lead, mercury, nickel, copper and cadmium.

SEA-IX™ MicroSelect is intended for use in:

- Residential water filter devices;
- Municipal & Industrial water treatment;
- Mining waste water; Landfill barriers;
- Drinking water POE/POU systems;
- Biological wetlands; Storm Water runoff
- Aquaculture
- Soil remediation for heavy metal contaminants.

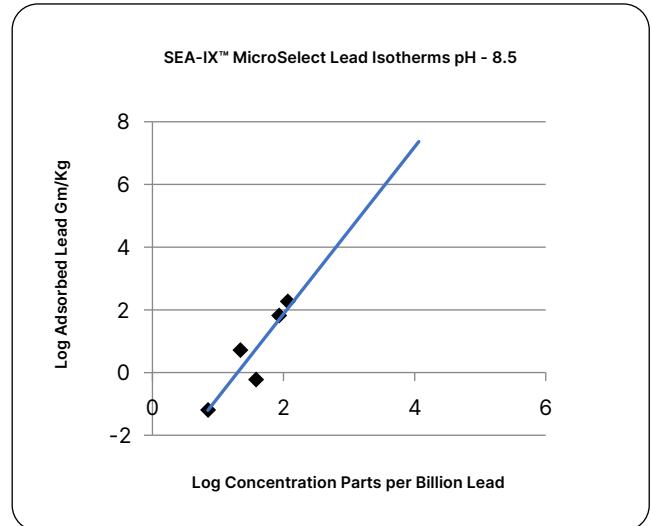
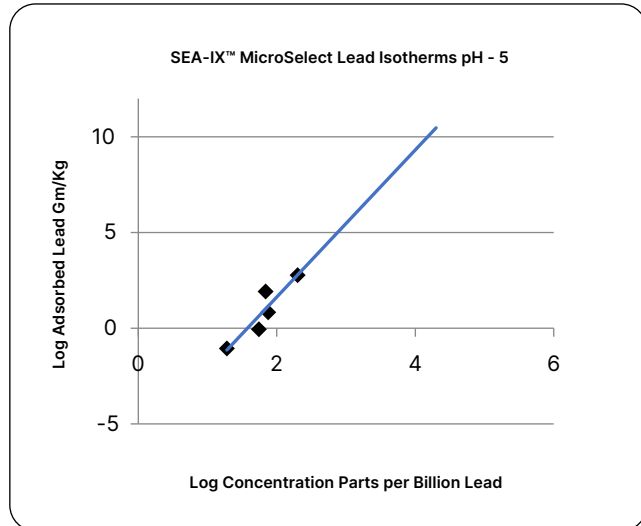


PRODUCT SPECIFICATIONS	
Physical Form	Silicate, in granular bead form 16 x 50 Mesh (Others available by request)
Color	Off White
Cation Exchange Capacity (CEC)	4.5 meq/g 3.47 eq/L 75.89 Kgr/ft ³
Bulk Density	48 lb./ft ³ 0.77 g/cc
Solubility in Water	Insoluble
Chemical Composition	Proprietary Silicate
Mode of Action	Cation exchange sites with molecular sieve structure.
Surface Area, BET	>600 m sq./g
Moisture Content (LOD%) per ASTM D-2116	<10.0%
Packaging	500kg (1102 lb) Supersacks

Product Benefits

SEA-IX™ MicroSelect is NSF 42 & 61 certified and utilized as water treatment media to remove dissolved heavy metals (lead, mercury, nickel and cadmium) and calcium and magnesium for water softening. When used as directed in wastewater treatment, SEA-IX™ MicroSelect provides improved settling, water clarification, ammonia and base metal adsorption, odor control and other purifying benefits. When used as a regenerative softening agent, SEA-IX™ MicroSelect retains greater long-term performance & efficiencies than Standard Resin.

Kinetic Capacity Performance



Softening Performance

