

Clino-X^{Sand}

High-performance filter media for removing silt, sediment, and turbidity.

Clino-X is a high-performance filter media with superior capabilities in removing silt, sediment and turbidity. It is made from a rare natural mineral that has been highly processed and graded. The unique properties of Clino-X allow it to significantly improve the performance and reduce the cost of media filtration, making it suitable for a wide range of water and wastewater treatment applications, including RO pretreatment, cooling towers, municipal water treatment, wastewater polishing, and more.



Volume: 25KG / Bag

The key advantages

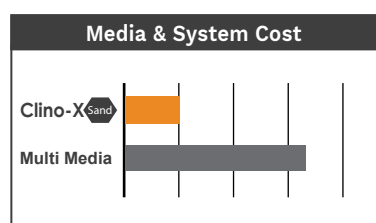
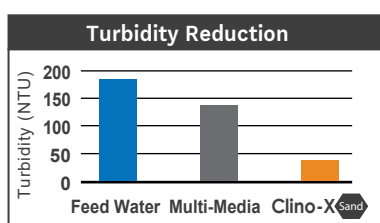
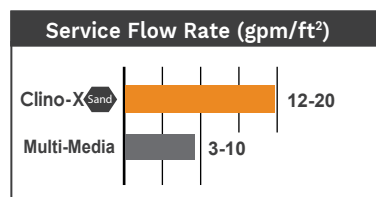
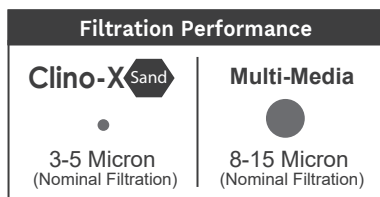
- higher solids loading capability
- superior filtration performance
- reduced backwash frequency
- removes finer particles
- lower pressure drop
- enables higher flow rates
- lightweight and easy to handle
- reduces shipping costs

Applications

- RO pretreatment - superior SDI reduction
- Cooling towers - unequaled turbidity removal
- Municipal water treatment, pressure & gravity filters
- Wastewater polishing - exceptional TSS removal
- Precipitated metals removal
- Carwash reclaim & recycling
- Irrigation & Aquarium water treatment and recycling
- Borehole water filtration - iron & manganese removal

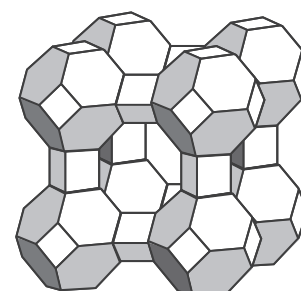
Filtration Performance

Clino-X can remove ammonium (NH₄⁺) and metal cations such as Pb, Cu, Cd, Zn, Co, Cr, Mn, and Fe from solutions, with the recovery of ammonium and some metals as high as 97%. This performance surpasses what can be achieved with traditional filtration media.



Technical Sheet

PHYSICAL PROPERTIES	
COLOR	Dark Green
BULK DENSITY	55 lbs. per cu. ft.
SPECIFIC GRAVITY	2.2 gm/cc
GRANULAR SIZE	1.0-3.0mm
UNIFORM COEFFICIENT	1.9
HARDNESS (MOHS SCALE)	4
CONDITIONS OF OPERATIONS	
MINIMUM BED DEPTH	20"
RECOMMENDED FREEBOARD	50% of bed depth
SERVICE FLOW RATE	12 - 20 GPM/sq. ft.
BACKWASH FLOW RATE	12 - 16 GPM/sq. ft.
BACKWASH BED EXPANSION	40% - 50%
Note: Allow bed to soak overnight before initial backwash.	



Clino-X crystal structure

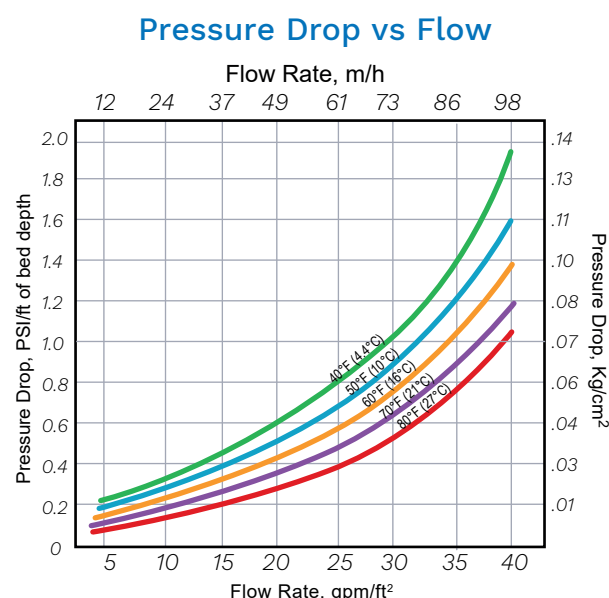
Clino-X vs Conventional Filter Media

MEDIA	NOMINAL MICRON RATING	LOADING CAPACITY
Sand	20	1.0 x
Sand and Anthracite	15	1.4 x
Multimedia	12	1.6 x
CLINO-X	<5	2.8 x

Clino-X Ion Exchange Performance Chart

Exchange Capacity: 30,000 mg/l for every 1 kg of media			
Contaminates Removal - Tested at water hardness of 200 mg/l			
Color : 58%	Turbidity : 95%	Total Hardness : 62%	Fluorine : 32%
Phosphorous : 55%	Ammonia : 99%	Iron : 99%	Manganese : 92%
Copper : 70%	Zinc : 88%	Cyanide : 62%	Chloride : 11%
Haloform : 55%	Volatility Phenol : 85%	Arsenic : 30%	Lead : 98%
Mercury : 28%	Cadmium : 92%	Molybdenum : 70%	Nickel : 25%
Free Chlorine : 96%			

If raw water hardness is above 200 mg/l, which can effect the contaminates removal efficiency mentioned above.



NOTE: When Clino-X is fully absorbed with contaminants, it can be regenerated like a water softener using 30% sodium chloride (Salts) to soak the media for 2 hours. Regeneration is only required when the filter is designed for ion exchange purposes.

Only periodic backwash is necessary to ensure the media's lifetime if the filter is designed for turbidity removal.