

FERROLOX-X

METAL ORGANIC FRAMEWORKS TECHNOLOGY

INTRODUCTION

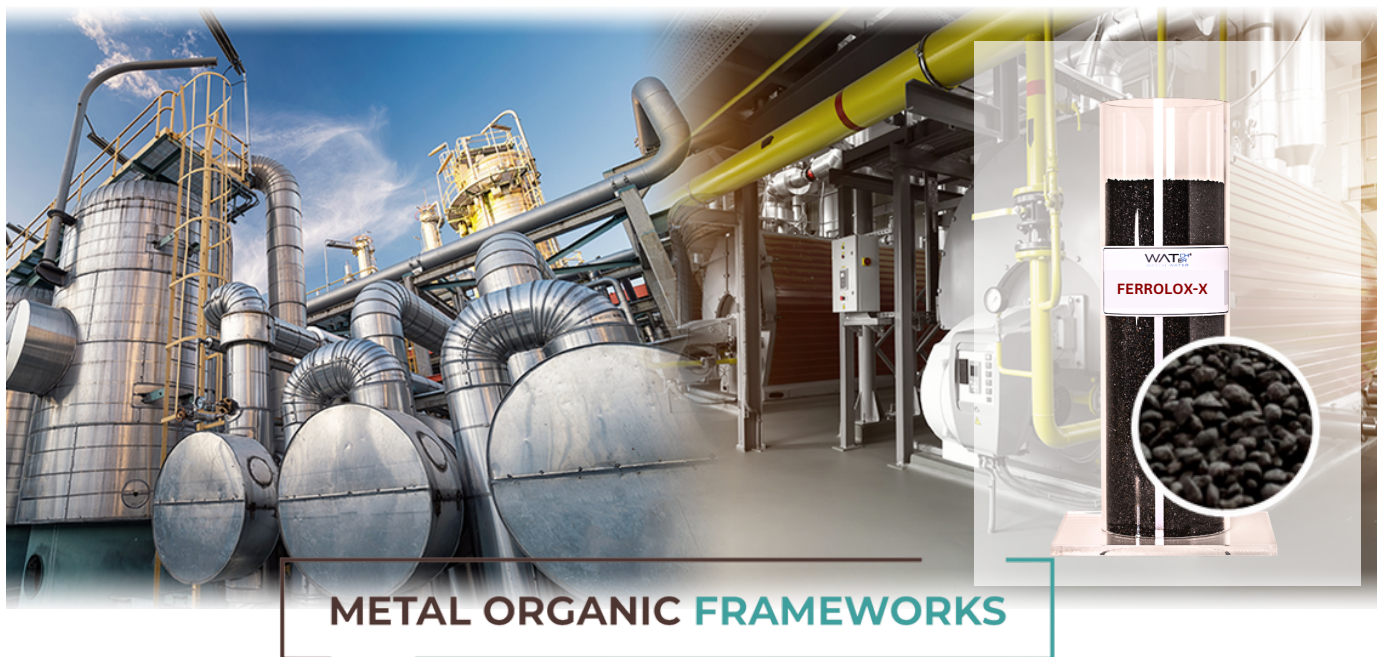
Watch Water's® Next Generation Adsorber to the Modern Water Treatment with a **METAL ORGANIC FRAMEWORK TECHNOLOGY (MOF'S)**

FERROLOX-X is based on carbon activated with **Metal-Organic Framework (MOF)** based adsorbent, that can selectively capture soluble organic, inorganic & heavy metals from water.

It has been surrounded by a **Hematite ferrite shell** and has the highest adsorption capacity.

FERROLOX-X internal surface area is consists of 70% Macropores and 20% Mesopores and only 10% micropores.

FERROLOX-X adsorber can be regenerated by using **SOLAROXY-3C**.



REMOVAL OF



ARSENIC
ANTIMONY



CHROMIUM
CADMIUM



SELENIUM
LEAD



SILVER
NICKEL



COPPER
MANGANESE



MERCURY
ZINC

ADVANTAGES

- Removal of multiple pollutants
- High capacity adsorption
- Regenerable on site
- Large surface area & macro porous structure
- Adsorption of organic and inorganic - Heavy metals in water

TECHNICAL DATA

FERROLOX-X

TYPICAL APPLICATIONS

- Drinking Water Purification
- Point of Use (POU)/Point of Entry (POE)
- Municipal Drinking Water
- Beverage Production
- Condensate polishing
- Agriculture + Irrigation
- Aquatic and aquarium water
- Wastewater Treatment
- Metal Industry
- Final Purification + Polishing
- Water Reuse
- Phosphorous Diffusion and Sorption
- Improve Agriculture-Production
- The first of its kind Fertilizer

SPECIFICATIONS

Carbon Content	Min 34%
FEOOH Content	Min 66%
Moisture Content	Max: 5 – 10%
Adsorption Capacity	80 g/L (by volume)
Specific Surface Area	3000 m2/g

PHYSICAL PROPERTIES

Type	MOF's Adsorber
Form	Solid Granules
Color	Reddish Black
Mesh Size (US)	8x30
Particle Size	0.5 – 2.0 mm
Bulk Density	ca. 690 kg/m3

PACKAGING

- 60 L Drum (42 Kg/drum) - 18 drums on a pallet
- Other packing considered on request*



OPERATING PARAMETERS

Flow Direction	Down Flow
Freeboard	40%
pH	5-9
Minimal Bed Depth	US 31.5 inch SI 80 cm
Optimal Bed Depth	US 47 inch SI 120 cm
Service Velocity	US 6 – 12 gpm/ft2 SI 15 – 30 m/h
Backwash Velocity	US 10 – 12 gpm/ft2 SI 25 – 30 m/h
Multiple Regeneration	Yes*

*Loaded FERROLOX-X Adsorber can be regenerated with **SOLAROXY-3C**

SIMPLE REGENERATION WITH **SOLAROXY-3C**

CONTACT US

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