

# ISOLUX<sup>®</sup>

## Arsenic Removal Systems



### Easy to Handle Cartridges

Spent cartridges are non-toxic and can be safely disposed of in the garbage or landfill.\*

## User-Friendly Cartridge Technology

ISOLUX<sup>®</sup> Zirconium media is the only arsenic removal media in the industry in powder form. Powder has much more surface area than granular medias. This gives it the ability to pull out 99% of the arsenic in a water stream in less than 30 seconds versus 3 to 5 minutes with granular medias. This fast uptake is precisely what makes the unique, no-backwashing, ISOLUX<sup>®</sup> cartridge technology possible.

### Clean and Convenient.

ISOLUX<sup>®</sup> cartridges are sealed so there is never any contact with messy media.

- 42" long, 4.5" in diameter and weighing only 21 lbs. cartridges can easily be loaded by one person
- No need for backwashing
- Spent cartridges can simply be thrown in the garbage\*

### Zirconium Hydroxide Adsorption Media made Specifically for Arsenic Removal.

The patented Zirconium Hydroxide adsorption media sets ISOLUX<sup>®</sup> shoulders above all other Arsenic treatment technologies. Until now, you may not have heard of it, but Zirconium has been used for decades worldwide for Arsenic removal.

- Unparalleled, non-leachable arsenic bond
- Removes Arsenic III & V simultaneously
- NSF 61 certified for drinking water use
- Verified for 99% to non-detect (zero) arsenic removal\*
- Non-toxic. Always passes the USEPA TLCP test as non-hazardous waste safe for landfill\*
- Imparts no odor, taste or color to water

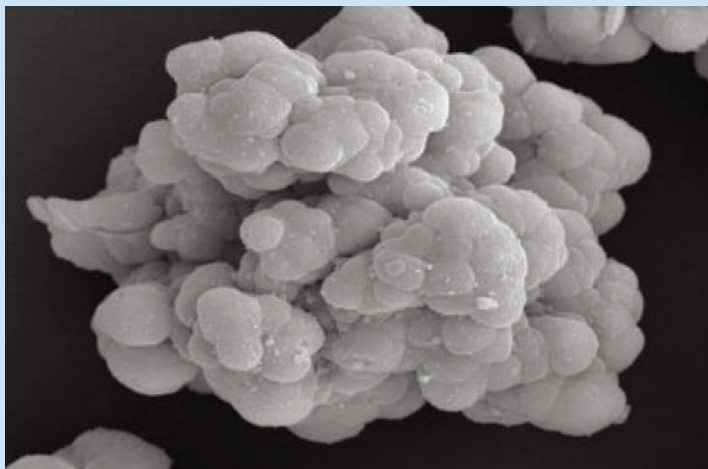
**ARSENIC REMOVAL**  
Made Pure and Simple



\* USEPA TCLP tested as non-hazardous waste safe for landfill, but due to variances in influent water quality, users are urged to perform independent verification of the non-hazardous character of spent media cartridges. Additionally, some states may have disposal criteria different from Federal guidelines (TCLP).

**MADE IN THE USA**

# ISOLUX® Zirconium Hydroxide Adsorption Media



## Basic Physical & Chemical Properties:

- Physical state: Solid
- Appearance: Powder.
- Molecular mass: 159.253 g/mol
- Color: White.
- Odor: Odorless.
- Odor threshold: Not applicable
- pH : Not applicable
- pH solution: 6 - 8 as a 10% slurry in water
- Relative evaporation rate (butylacetate=1): Not applicable
- Melting point: > 100 °C
- Freezing point: > 100 °C
- Boiling point: Not applicable
- Flash point: Not applicable
- Self-ignition temperature: Not applicable
- Decomposition temperature: 550 °C
- Flammability (solid, gas): Non-flammable.
- Vapor pressure: No data available
- Relative vapor density at 20 °C: No data available
- Relative density: 0.8 - 1.2
- Solubility : Water: < 1 mg/l
- Log Pow: Not applicable. Log Kow: Not applicable
- Viscosity, kinematic: Not applicable
- Viscosity, dynamic: Not applicable
- Explosive properties: Product is not explosive.
- Oxidizing properties: No oxidizing properties.
- Explosive limits: Not applicable

ISOLUX® Zirconium Hydroxide is an environmentally safe and highly efficient inorganic adsorption media designed specifically for the removal of arsenic from drinking water and process water streams.

ISOLUX® Zirconium Hydroxide adsorption media employs both chemi-sorption reaction and ion exchange mechanisms. This combination provides for excellent affinity for the arsenate and arsenite ions while creating a very insoluble metal arsenate.

- Porous Range Ion selectivity, from < 2mm to 50mm High
- Adsorption Capacity Adsorption Capacity: 10-11mg/gr
- Chemical Durability Operational range from pH 4 to pH 8.5
- Exhibits fast kinetics of adsorption, 99% uptake in the first 10-30 seconds of contact.

The Choice is Clear.  
**ISOLUX**<sup>®</sup>  
Arsenic Removal Systems

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