

# ISOLUX™

**Arsenic treatment made simple**

**Reduces 99%+ of total arsenic**

**Removal effectiveness even at levels > 100 ppb**

**High selectivity, even effective at levels < 10 ppb**

**No backwash,  
no pressure vessel,  
no wastewater,  
no media contact**

**90% update in 10 - 30 seconds**

**NSF 61 Certified**

**Receive an ISOLUX™  
treatment evaluation on  
your water, call Customer  
Service at 800.366.4850**

**ZrPure.com**

## Arsenic Removal Pure and Simple

ISOLUX™ adsorption employs both ion exchange and chemi-sorption reaction mechanisms. This combination provides for excellent affinity for the arsenate ion while creating a very insoluble metal arsenate. These benefits are reflected in the adsorption capacity and disposal characterization of spent media.

ISOLUX treatment systems are self contained, designed for rapid deployment, without adverse impact on existing operations and infrastructure. Plus, ISOLUX consistently demonstrates no hazardous waste generation. The arsenic adsorbed on ISOLUX remains fixed, even in acidic or alkaline environments.

MEI provides complete on-site evaluations, laboratory evaluations, engineering design, installation, regular site sampling, maintenance and management of exhausted media.

MEI offers end-to- end support with complete lab testing, engineering and manufacturing facilities located in the U.S.

### Features

Porous Range	Ion selectivity, from < 2nm to 50 nm
High Adsorption Capacity	Adsorption Capacity: 10-11 mg/gr Exceeds capacity for analogous metal hydroxide adsorbers Reduces 99%+ of total arsenic as arsenic III and arsenic V
High Ion Affinity	Processes enhance removal of Arsenic, Cadmium, Chromium, Lead, Fluoride, Copper and non-metal contaminants from drinking water, groundwater and waste-water
High Selectivity	Can be custom synthesized to target specific ion species Even effective at arsenic levels < 10 ppb
Simplicity	Self contained design installs easily, requires no backwash, no pressure vessel, No wastewater, NO MEDIA CONTACT.
Chemical Durability	Operational range from pH 4 to pH 8.5 Exhibits quick kinetics of adsorption, 90% update in the first 10 to 30 seconds of contact
Non-hazardous waste	Non-Leachable media passes EPA TCLP and California WET test
NSF 61 Certified	MEI makes Isolux products specifically for use in drinking water Isolux is non toxic and imparts no harmful chemicals into the product water.

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**ISOLUX™ Technologies**  
A Division Of Magnesium Elektron, Inc.