

# FerrIX™ A33E

Modified resin infused with with iron oxide particles

## PRODUCT DATA SHEET

**FerrIX™ A33E** is a proprietary hybrid ion exchange resin specifically designed for selective removal of arsenic from water, certified to NSF/ANSI 61 Standard. This highly porous anion resin is infused with iron oxide to allow for fast and efficient adsorption of arsenic. The porous nature of the resin bead allows for maximum utilization of the infused iron. **FerrIX™A33E** can be used in majority of existing lead-lag or parallel design configurations.

Water treatment systems incorporating **FerrIX™A33E** are designed and operated using the same engineering guidelines as conventional ion exchange resins. Purolite's proprietary simulator will accurately calculate the throughput capacity for treating a specific water supply when correct water chemistry is provided, eliminating the need for extensive field trials. The superior strength of ion exchange beads means fines will not be generated during resin loading or the service cycle. Therefore pressure drop will remain low and backwash will be minimized, reducing water loss and avoiding the discharge of arsenic laden fines to the sewer.

Upon prior arrangement with Purolite, exhausted **FerrIX™ A33E** can be returned to Purolite for regeneration under an NSF/ANSI 61 approved process that utilizes full chain of custody documentation. (Note: currently this service is only available in the USA). The arsenic removed from the resin is immobilized and discarded according to local discharge regulations and requirements.

Start-up and operating costs, including media cost, water use and maintenance are minimized with the use of **FerrIX™ A33E**.

**FerrIX™ A33E** is ideal for municipal water treatment plants as well as point-of-entry (POE) and point-of-use (POU) systems.

**FerrIX™ A33E** is not hazardous according to OSHA 29CFR 1910.1200. Dispose of waste and residues in accordance with local authority requirements.

### Typical Physical and Chemical Characteristics

Application	Arsenic Removal Resin
Polymer Structure	Polystyrene cross-linked with divinylbenzene
Appearance	Brown spherical beads
Functional Group	
Ionic Form as Shipped	Cl <sup>-</sup>
Arsenic Capacity	0.5 - 4 g As/l
Particle Size Range	300 - 1200 µm
<300 µm (max.)	1 %
Uniformity Coefficient (max.)	1.7



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Shipping Weight (approx.)	790 - 820 g/l (49.4 - 51.3 lb/ft <sup>3</sup> )
pH Limits, Operating	4.5 8.5
Temperature Limit	80 °C (176 °F)

## FOR MORE INFORMATION CONTACT:

APPLIED PROCESS EQUIPMENT

Scottsdale, AZ

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