

# A r s e n i c R e m o v a l

# NXT-2<sup>®</sup>

## Nanocrystalline, NXT Adsorptive Media

### Benefits:

#### **Cost Effective:**

- High capacity for As adsorption  
- Provides the lowest adsorptive treatment cost per 1000 gallons
- Rapid kinetics
- Dry media - Easy to use, free flowing
- Removes other contaminants - phosphate, chromium, selenium, fluoride, antimony, lead and more
- No chemicals required for regeneration
- Removes both As (III) and As (V) to less than 5 µg/l (ppb) without the need for an oxidation step
- Removes As up to 10 pH without the need for chemical pretreatment

#### **Safe:**

- Will not release bound Arsenic in the event of pH upset
- Non-hazardous waste - Meets TCLP Requirements

### NXT-2<sup>®</sup> Typical Properties:

- Description: Patented<sup>1</sup> Lanthanum based Adsorptive Media
- Surface Area: 250 m<sup>2</sup>/g
- Zeta Point pH: 12.0
- Bulk Density: 45lb/ft<sup>3</sup>
- Particle Size: 20 x 65 mesh
- Color: Reddish Brown
- EBCT: 2.5 - 3.0 Minutes
- Surface Loading Rate: 7-9 gpm/ft<sup>2</sup>

<sup>1</sup> Patent Pending

### **Certified by:**



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# A r s e n i c R e m o v a l

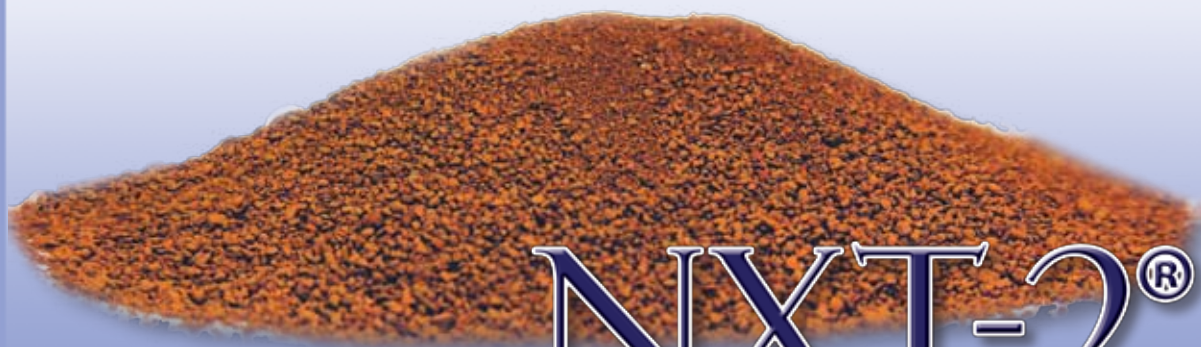
NXT-2® is a patented media which provides users with the lowest treatment costs per thousand gallons for adsorption technology. This is due to the high surface area of the media, which is often times greater than 250 m<sup>2</sup>/gram. High surface area increases the medias capacity for arsenic adsorption and extends bed volumes.

In addition to the high surface area, NXT-2 is stable. Once the arsenic is bound to the media, NXT-2 will not release the bound arsenic in the event of pH upset. Release or “spiking” occurs when the pH of the water exceeds the zeta point pH of the media.

NXT-2 has a high zeta point pH of 12.0 while many iron based medias have a zeta point of 7.8 pH. This stability reduces the potential to distribute water which has high arsenic concentrations in excess of the EPA standard, due to loss of pH control.



**NXT-2 Pilot Unit (Up to 20 gpm)**



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