



Uranium Removal: LayneUSR

Uranium Removal Media



The LayneUSR Difference:

- NSF/ANSI Standard 61 Certified
- Long lasting
- High capacity
- Low operating cost
- Proven anion exchange chemistry
- No fines
- No backwash
- No odor
- Optimal flow dynamics
- Rapid kinetics
- No pH drop
- Low pressure drop

Meet the Uranium MCL using the best new Uranium Removal Media Available

The LayneUSR™ difference: LayneUSR has been developed as a new improved media, thus lowering costs associated with removing uranium from water. It's durability and affinity for uranium means that LayneUSR can reliably and efficiently reduce uranium to safe consumption levels.

LayneUSR is a long lasting, high capacity technology that provides rapid removal kinetics without generating fines. Not only does LayneUSR provide optimal flow dynamics, no backwashing (no onsite residuals), and a low pressure drop, but it is also designed to mitigate the pH drop and potential odor associated with typical anion exchange resins.



Certified to NSF/ANSI 61

Characteristic	Value
Structure	Polystyrene Gellular
Functional Group	Dimethylethanol amine
Bulk Density (as sold)	705 g/l (44 lb/cu.ft)
Minimum Contact Time	2 minutes
Operating Temperature Range	1-70° C (33-160° F)
Particle Size	300 -1200 microns
Operating pH Range	5 - 9

Layne Christensen Company

Water Technologies:

Define
Develop
Deliver



The Sampling Program

The performance of LayneUSR, like all sorbents, is affected by the specific water chemistry at your well. To protect the quality of your drinking water and the continued performance of your system, Layne Christensen has integrated a comprehensive sampling program into your system. We regularly analyze your water quality by sending you pre-paid sample kits that are coded to the sampling ports engineered into our systems. The results are used to schedule maintenance and are kept to maintain a performance data base.

Disposal

The disposal of media laden with arsenic or uranium presents a potential liability and accordingly should be handled by experts having knowledge of the very complex regulations governing disposal. The disposal of both hazardous and non-hazardous materials is governed by

many Federal, State and local regulations, some of which change over time. The use of LayneUSR eliminates on-site disposal residuals and reduces the amount of waste that must be disposed of by over 90% compared to most other sorbents.

The Layne Media Assurance Program

The annual media regeneration costs of systems using LayneUSR can be determined by completing a pilot test on the site to be treated. Our Pilot /Performance program is unique in the industry and is illustrative of our confidence in our technologies and in the systems that we install. Pilot evaluations, which are usually completed in 3-6 months, provide enough information for Layne to warrant your annual media regeneration costs under certain conditions.



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Contact your
Layne Christensen Company
Water Technologies representative:

877-358-8813
www.laynechristensen.com