



Contact us at: info@urbansaqua.com
www.urbansaqua.com

Episode 11 Show Notes – Is Multimedia Dead?

Background

Clinoptilolite is a mined zeolite known under the brand names Filter-Ag Plus™ and Turbidex™.

- It is mined in Texas.
- It's ancient very pure volcanic ash.
- The granules are extremely angular with microporous void spaces as small as 3 microns.
 - This creates a surface area over 100 times greater than the silica sand commonly used in traditional sand and multimedia filters.
- The bulk density is 50 pounds per ft³; sand is 100 pounds per ft³

Discussion

Our firsthand experience has been with industrial sites such as steel mills. Steel mills use a lot of water to quench the steel bars. This water is recycled through large multimedia filters. The water is very turbid only the top 5 inches of the bed actually filters the water. These systems are backwashed based on pressure differential. Given these conditions, backwash happens very often and requires enough water to lift media which weighs in excess of 100 pounds per ft³.

One of our commercial industrial dealers has replaced traditional sand and multimedia with single beds of FilterAg Plus at several steel plants saving both money and water.

Side stream filtration is another common use for media filtration. This method is used to continually clean 10% of the process water on an ongoing basis. It's commonly used on cooling tower applications. Another of our dealers applied Filter-Ag Plus™ in a side stream filter for a glycol loop. So, it's very versatile.

Residentially Filter-Ag Plus™ is installed ahead of systems to reduce turbidity or after iron filters to remove oxidized iron.

Advantages

- Filter-Ag Plus™ can filter down to 5 microns with 97% efficiency.
- Reduces wastewater expense
 - Longer run times
 - Less frequent backwash
- Lower transportation costs
- The entire bed is used, not just the top several inches
- Removes silt and colloids which pass through filter sand.
- Smaller equipment footprint
- Media can be cleaned on industrial sites with chlorine or sodium hydroxide.



Contact us at: info@urbansaqua.com
www.urbansaqua.com

Disadvantages

- **Must be backwashed and settled several times before first use. There is a backwash startup protocol.**

[Filter-Ag Plus Installation Directions](#)

Learn more about [Urbans Aqua](#)

Connect with Urbans Aqua on [LinkedIn](#)

Connect with Mike on [LinkedIn](#)

Connect with Denise on [LinkedIn](#)

PO Box 434
Lima PA 19037-0434
610-365-7818