

Introducing Pep Active



What is it?

An inorganic media with a negative zeta potential which provides accurate and efficient filtration.

- Processed to optimize size and provide a unique shape and activated to significantly increase surface area over other media options
- Negatively charged to adsorb organics and small particles
- Permanent zeta potential creates high redox potential which makes Pep Active self sterilizing

Benefits and advantages:

- **Pep Active removes particles down to ~ 2 micron**
 - » No pressure loss increase with this increased performance
- **Negative charge eliminates:**
 - » Bio-fouling and channeling of the media
- **Filter performance is superior:**
 - » No accumulation of material on or in media
- **Major life cycle cost savings over other media:**
 - » Media service life of up to 15 years
 - » Up to 50% less water used for backwash
 - » Shallow media depth improves backwash efficiency
 - » Activated media enhances chemical performance
 - » Rapid backwash reduces energy consumption
- **No chemical regeneration required - zeta potential is regenerated with a simple backwash**
- **NSF-61 & NSF-50 certified**

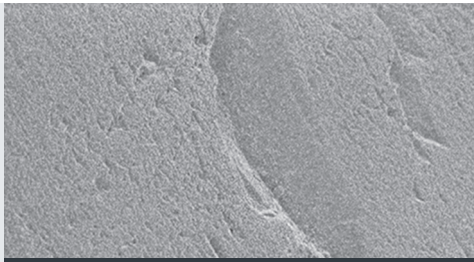
Recommended operating parameters:

Parameter	Value
Max. operating differential pressure	5-7 PSI
Backwash duration	1.5-3 minutes
pH limits	3-9
Temperature limits	33.8 – 212°F (not considering vessel)

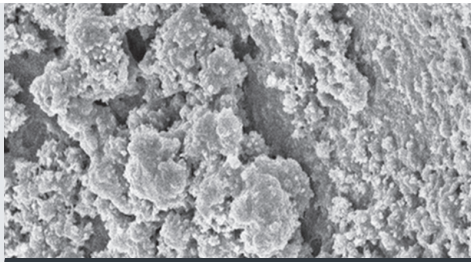


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Pep Active: see the difference



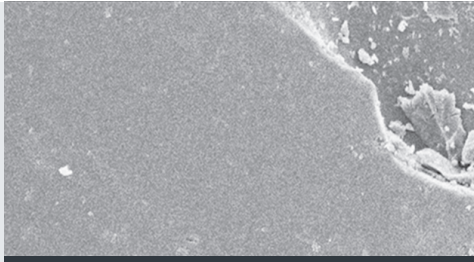
New sand



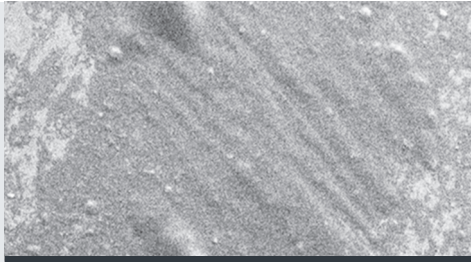
Used sand

Sand has 100% bacteria coverage after 3 days in a drinking water system.

High levels of bacteria (bio-fouling) reduce filter performance and increase chemical demand.



New Pep Active



Used Pep Active

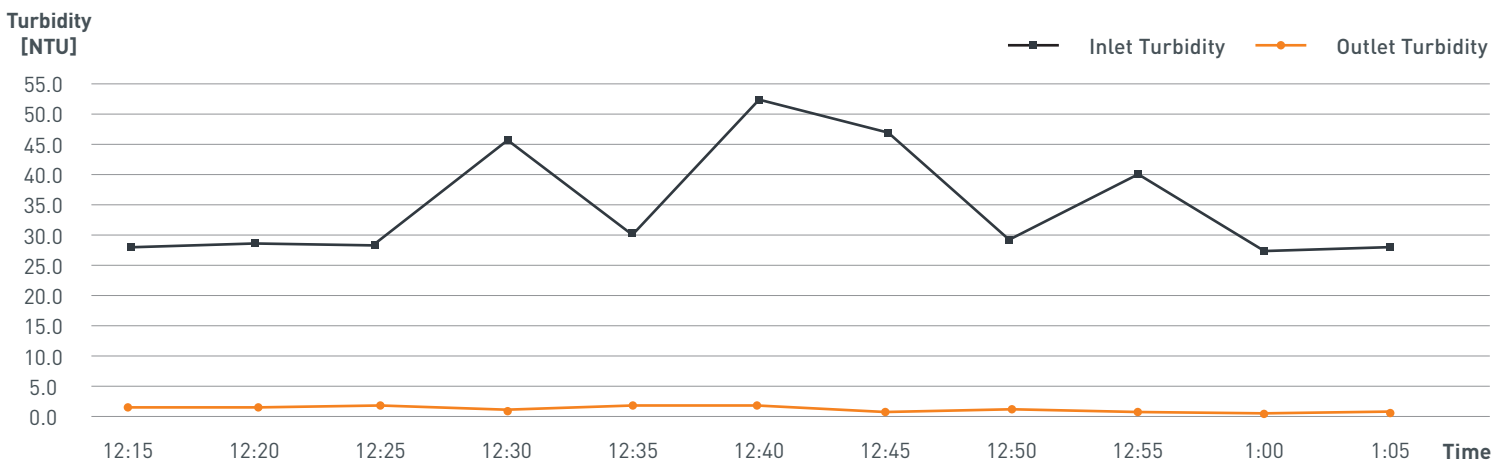
Pep Active stays free of bacteria bio-fouling, even after 5 years in sewage effluent.

Applications:

Application	Contaminant removal
Drinking water	Iron, manganese, arsenate, chemicals, turbidity, TSS
Municipal wastewater	Phosphorous, bacteria, BOD, COD, TOC, turbidity, TSS
Industrial process water	Organic pollutants, oils, TSS, VSS, turbidity, TSS
Industrial wastewater	Colors, fine fibers, mineral oils, turbidity, TSS
Aquaculture	Organics, bacteria, BOD, COD, TOC, turbidity, TSS

Proven results:

Pep Active pilot results - turbidity reduction from piloting at a SWRO facility, DAF effluent polishing



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