

**AFM<sup>®</sup>** is a Bio-resistant Activated Filter Media using recycled green glass that greatly reduces airborne chloramines.



**AFM<sup>®</sup>**  
Activated Filter Media

***AFM<sup>®</sup> is the world's only  
activated glass filter media.***

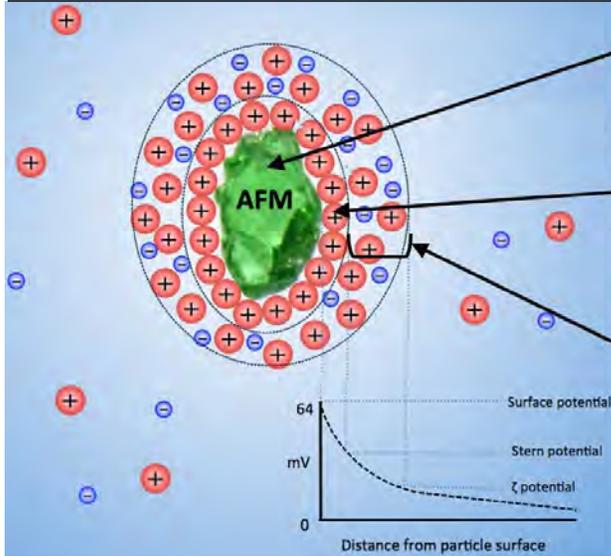
The patented 3 step manufacturing process electrically charges the surface of every grain to produce a filter media that is chemically and electro-mechanically active.



- Stops bacteria adhesion, growth and Bio-film formation
- Generates Oxidation Potential at the grain surface
- Self sterilizing, Bio-resistant
- Drastically reduces tri-chloramines formed in the filter
- Electrostatically Adsorbs Organics and fine particles
- Particles never touch the grain surface
- 300 X more active surface area than sand
- Improved filtration - Improved backwash

"Sand filtration... has served us well, however with the increasing demands on our water resources and pressure to continue to improve water quality, we have reached the limit of sand filter performance." - Dr. Howard Dryden

# WHAT MAKES AFM® ACTIVE?

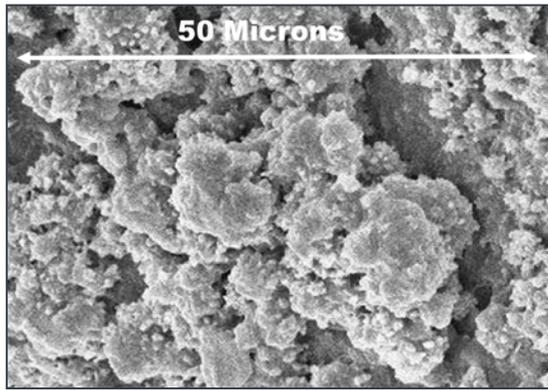


AFM® grain with permanent negatively charged surface

"Stern Layer" Positively charged hydrated counterions align over the surface of the AFM® grain creating a "Shear Plane"

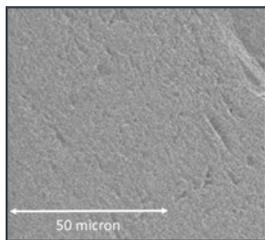
"Slipping Plane" prevents particles from touching grain surface

Catalytic Oxidation Potential at the grain surface

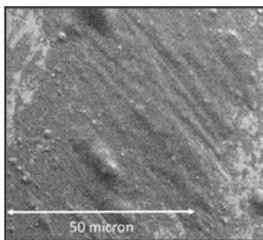


## BIO-FILM IN SAND FILTERS

- Bacteria adhere to and colonize the entire sand bed in a short time.
- Bacteria excrete Bio-film, an acidic jelly like substance.
- Bio-film is a protective barrier against chlorine, even at 50ppm.
- Bio-film protected Bacteria discharge ammonia, creating tri-chloramines
- Bio-film glues particles to sand reducing backwash effectiveness
- Bio-film produces significant amounts of tri-chloramines in large pools



New AFM at time of installation



AFM after 5 years of operation. No Bio-film accumulation

## AFM® ACTIVATED FILTER MEDIA

- Bio-film never develops - No bacteria growth in filter
- Drastically reduces tri-chloramine formation
- Particles never stick to grain surface - more effective backwashing
- Filters smaller particle size - improved filtration
- NSF 50 and NSF 61 approved

## BENEFITS:

- Stops bacteria colonization, Bio-film formation, tri-chloramine production in the filter
- Reduces airborne chloramines
- Removes 95% of particles larger than 4 microns at 8gpm/ft<sup>2</sup>
- Improves filtration, water clarity - longer filter runs
- Improves backwash effectiveness - extends backwash frequency
- Reduces chlorine demand
- Never needs replacing

maytronics

Contact Maytronics for a dealer near you