

## **ORIGINAL (1) Sand**

Characteristic: quarried or dredged, limited natural resource, environmentally questionable, many different qualities, biofouls quickly, needs replacement

Performance: > 20 - 40 micron particles

## **ORIGINAL (2): Crushed Glass**

Characteristic: crushed glass, mixed color, not activated, usually high contamination

Performance: below good quality sand (> 20 micron particles)

## **GOOD: Dr. Dryden's Activate**

Characteristic: crushed glass, mixed color, basic activation, some contamination

Performance: between sand and AFM (>12 micron particles)

## **BETTER: AFM Activated Filter Media**

Characteristic: glass broken and grinded to specific PSD (particle size and shape), green/brown color only, standard AFM activation (negative charge), no contamination. NSF 61 drinking water approved

Performance: > 5 micron

## **BEST: AFM-ng Activated Filter Media (next generation)**

Characteristic: glass broken and grinded to specific PSD (particle size and shape), green/brown color only, hydrophobic AFM activation, no contamination.

NSF 61 drinking water approved

Performance: 1 micron

# Product Comparison

	<b>Sand (ORIGINAL)</b>	<b>Crushed Glass (ORIGINAL)</b>	<b>Activate (GOOD)</b>	<b>AFM STANDARD (BETTER)</b>	<b>AFM<sup>®</sup>-NG (BEST)</b>	Comments
Filtration performance (at 95% particle removal efficiency)	<b>&gt; 20-40 microns</b>	<b>&gt; 25 microns</b>	<b>&gt; 12 microns</b>	<b>&gt; 5 microns</b>	<b>1 micron</b>	AFM-ng is by far the best performing filter media on market.
Performance independently tested and verified	<b>NO</b>	<b>SOME</b>	<b>NO</b>	<b>YES</b>	<b>YES</b>	AFM/AFM-ng performance has been independently tested by IFTS in France in accordance with ISO testing standards. Test reports available upon request.
100% bio-resistance	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>YES</b>	<b>YES</b>	AFM/AFM ng made from green/brown glass only and activated surface for 100% bio-resistance. Activate and mixed glass are using high % of flint, therefore not fully bio resistant.
Activated Surface	<b>NO</b>	<b>NO</b>	<b>PARTIAL ACTIVATION</b>	<b>YES – STANDARD ACTIVATION</b>	<b>YES – HYDROPHOBIC ACTIVATION</b>	Dryden Aqua is the only activated glass filter manufacturer on market. AFM-ng is the only hydrophobic media on market. Removes 30-50% more organics than Standard Activation.
Requires 2 or more grades	<b>SOME</b>	<b>SOME</b>	<b>YES</b>	<b>YES</b>	<b>NO</b>	AFM-ng COMBI mixed grade bag requires only one grade for all residential filters.
Contamination (dust residual, organics, metal, inert, etc.)	<b>MEDIUM</b>	<b>MEDIUM/HIGH</b>	<b>MEDIUM</b>	<b>NO</b>	<b>NO</b>	AFM/AFM-ng is super clean, contains < 50g/ton contamination. Activate approx. 1000g/ton, mixed glass often > 30,000g/ton (except for virgin glass media).
Environmental friendliness (glass source, energy and water savings)	<b>LOW</b>	<b>MEDIUM</b>	<b>MEDIUM</b>	<b>HIGH</b>	<b>HIGH</b>	AFM/AFM-ng from 100% recycling glass, no biofouling so very short backwash cycle resulting in water and energy savings.
Drinking water certification (NSF 61)	<b>SOME</b>	<b>NO</b>	<b>NO</b>	<b>YES</b>	<b>YES</b>	AFM/AFM-ng, to our knowledge, is the only glass-based filter media with NSF drinking water certification.

## Crushed glass media

- Not decontaminated and sanitized
- Uneven particle size and shape distribution (shards)
- Not activated
- Not fully resistant to bacterial growth
- No lifetime performance



## AFM<sup>®</sup>

- 100% pure and sterilized
- 100% safe to use due to sub-angular particle shape
- Patent protected Activated surface and surface charge
- Resistant to bacterial growth
- Lifetime performance

