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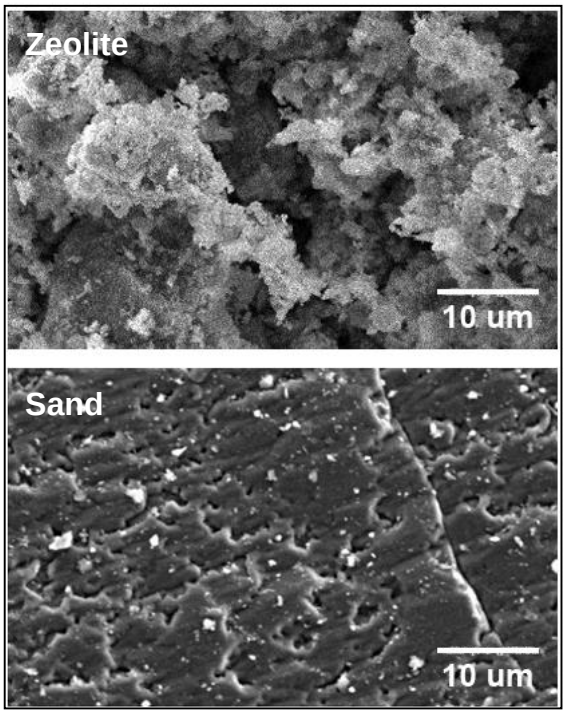
Zeolite Filter Media

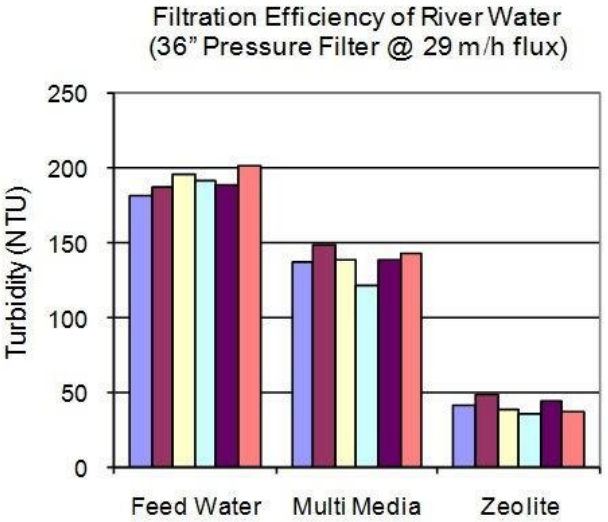


This high purity unmodified natural zeolite achieves superior filtration, higher service flow rates and higher bed loading compared to conventional filter sand and multi-media.

The media's rough and microporous structure creates a surface area over 100 times greater than silica sand resulting in a much more efficient reduction in suspended solids and turbidity via mechanical straining as well as physical and electrostatic adsorption, coagulation and ion-exchange phenomena.

Media Comparison

	Zeolite 14x40	Multi-Media	Sand 20x40
Efficiency (um)	<5	12-15	20-30
Pressure (m/h)	29-49	29-37	20-29
Gravity (m/h)	10-12	10	5-7.5
Loading Factor	~2.5x	~1.5x	1x



Advantages

- *Superior water quality*. Filtration efficiency down to <5 micron reduces load on downstream equipment.
- *Higher service flow rates* result in lower equipment costs and space savings, or increased capacity.
- *Savings in backwash water and time out of service*. Up to 2.5x higher sediment loading capacity results in longer run times.
- *Savings in transport costs* due to significantly lighter weight than traditional media.
- *Simplify orders, inventory and installation* using a single media instead of multi-media.
- *All-natural*, environmentally friendly product.
- *Experienced product support*

Physical Properties

Mineral Purity	~ 97%
Colour	Light beige
Dry Bulk Density	990 kg/m^3
Mesh Size	14x40
Effective Size	0.8 to 1.4mm
Uniformity Coefficient	2.2
Porosity	~ 55%
Surface Area (avg.)	25 m^2/g
Thermal Stability	< 500^{o}C

Operating Conditions

Bed Depth	600-900mm
Freeboard	50% of bed depth
Service Flow Rate	29-49 m/h
Backwash Flow Rate	37-49 m/h

Classification

GRAS Classified under 21 CFR Part 182 .2729 and 40 CFR Part 180.1001 as Generally Recognized As Safe and meets NSF 61 Listing criteria.