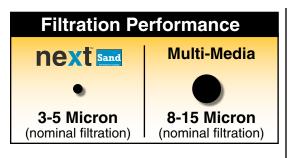
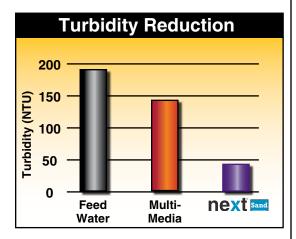
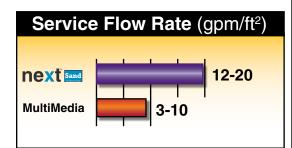
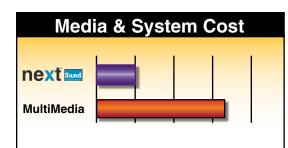


A radically high performance silt, sediment and turbidity media.









Introduction

nextsand is based on a rare natural mineral that is highly processed and graded. It's unique properties allow it to radically alter the performance and cost of media filtration. The hardness, stability and microporous character of **nextsand** makes it a perfect filtration media for virtually every application in the water and wastewater treatment industry.

Features

- High filtration performance-3-5 micron removal.
- High capacity filtration throughout the entire **nextsand** bed depth provides more than twice the capacity of multimedia filtration.
- High flow- 3-4 times that of multimedia with superior filtration.
- Long lasting media (>5 years) not consumed in the process.
- Simple periodic backwash keeps the media clean and operating efficiently.

Applications

- **RO** Pretreatment-superior SDI reduction
- Cooling Towers-unequalled Turbidity removal
- Municipal Water Treatment, pressure and gravity filters-higher flow, lower pressure drop and superior filtration performance
- Wastewater Polishing-exceptional TSS removal
- Precipitated metals removal
- Carwash reclaim and recycling
- Irrigation

Physical Properties

- Composition High Purity Alumino-Silicate Size 0.4-1.4 mm (approx. 14x40 mesh) Color Dark Gray Surface Area 25m²/gram Surface Absorption Hydrophillic Thermal Stability Stable to 500° C
- Coefficient of Uniformity 1.7
- Bed Void Volume
- Surface Charge
- **Bulk Density**
- Packaging

Performance Characteristics

Filtration (nominal) 3-5 micron Surface Loading 16-20 gpm/ft² (Typical) 12 gpm/ft² (Optimized for silt, SDI and ultrafine particulates)

- 55%
- Net Negative
- 55 lbs per ft³ (0.88 kg/L)
- 1 ft³ bags, 1m³ supersacks.



Example 1. Service Flow: 15 gpm Filtration: <10 micron

	nextsand	MultiMedia	
Surface loading	15 gpm/ft²	5 gpm/ft²	
Surface area req'd	1.0 ft ²	3.0 ft ²	
Tank Dimensions	14" x 65"	24" x 71"	
Media volume req'd	3.2 ft ³	10.8 ft ³	
Media weight	216 lbs	1057 lbs	
BW flow req'd	17 gpm	gpm 51 gpm	
Daily BW volume	179 gal	gal 510 gal	
Filtration	<5 micron <10 micron		
Comparative cost	1X 3 X		

Example 2. Service Flow: 45 gpm Filtration: <10 micron

	nextsand	MultiMedia	
Surface loading	15 gpm/ft²	5 gpm/ft ²	
Surface area req'd	3.0 ft ² 9.0 ft ²		
Tank Dimensions	24"x72" 42"x72"		
Media volume req'd	9.5 ft ³	35.3 ft ³	
Media weight	672 lbs	3469 lbs	
BW flow req'd	53 gpm	153 gpm	
Daily BW volume	556 gal	1530 gal	
Filtration	<5 micron	<10 micron	
Comparative cost	۱X	3.3 X	

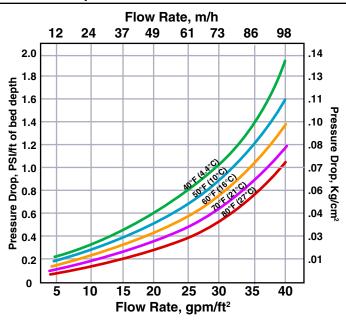
The tables above illustrate the advantages of **nextsand** by comparing two systems designed for the same service flow; one system based on **nextsand**, and one multimedia system (gravel, garnet, fine garnet, anthracite). Each system is based on best design practices for the respective media.

filtration filtration technologies inc. 6586 Hypoluxo Road, Suite 362 Lake Worth, FL 33467 email: info@nextfiltration.com web: www.nextfiltration.com

Specifications

Operating Characteristics				
Service Flow	12-20 gpm/ft²			
Backwash flow	13-22 gpm/ft²			
Backwash duration	5-15 min			
Backwash expansion	40-50%			
Backwash frequency	Delta-P determined			
Bed depth	30"-48" depending on application			

Pressure Drop vs Flow



Typical Backwash Flow Requirement, vs Water Temp*

/1					•	
	80°F	70°F	60°F	50°F	40°F	
Flow	(27° C)	(21° C)	(16° C)	(10° C)	(4.5° C)	
U.S. gpm/ft ²	22.3	19.8	17.2	14.8	12.5	
m/h	54.5	48.4	42	36.2	30.6	
*40% bed expansion.						

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