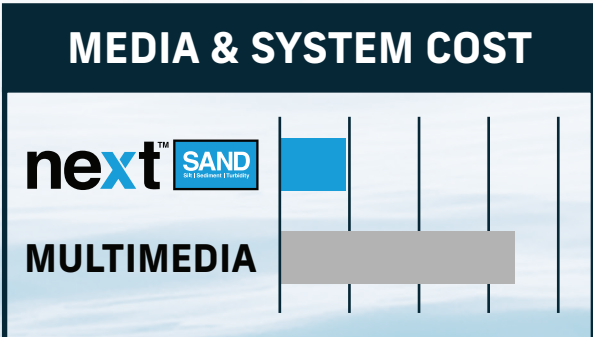
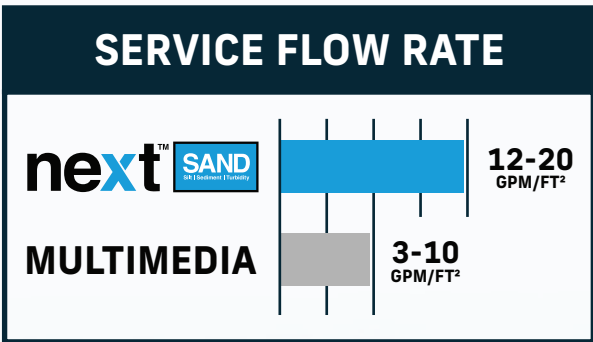
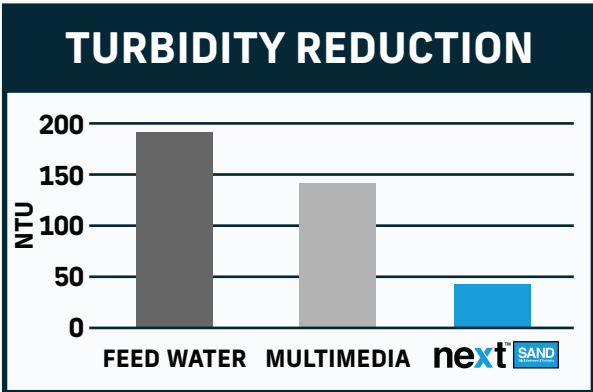
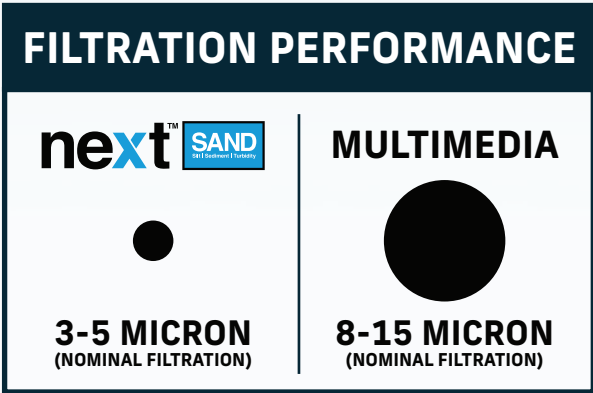


next™



A RADICALLY HIGH-PERFORMANCE SILT, SEDIMENT & TURBIDITY MEDIA

WHY PAY MORE AND FILTER LESS?



INTRODUCTION

Next-Sand is based on a rare natural mineral that is highly processed and graded. Its unique properties allow it to radically alter the performance and cost of media filtration. The hardness, stability, and microporous character of Next-Sand 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 Entire Bed Depth
 - 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 Required
 - Keeps The Media Clean & Operating Efficiently

APPLICATIONS

- RO Pretreatment : Superior SDI Reduction
- Cooling Towers : Unequalled Turbidity Removal
- Municipal Water Treatment : Pressure & Gravity Filters
 - Higher Flow, Lower Pressure Drop & Superior Filtration
- Wastewater Polishing : Exceptional TSS Removal
- Precipitated Metals Removal
- Car Wash Reclaim & 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 ≤ 500° C
- Coefficient of Uniformity : 1.7
- Bed Void Volume : 55%
- Surface Charge : Net Negative
- Bulk Density : 55 lbs per ft³ (0.88 kg/L)
- Packaging : 1 ft³ Bags, 1m³ Supersacks



PERFORMANCE CHARACTERISTICS

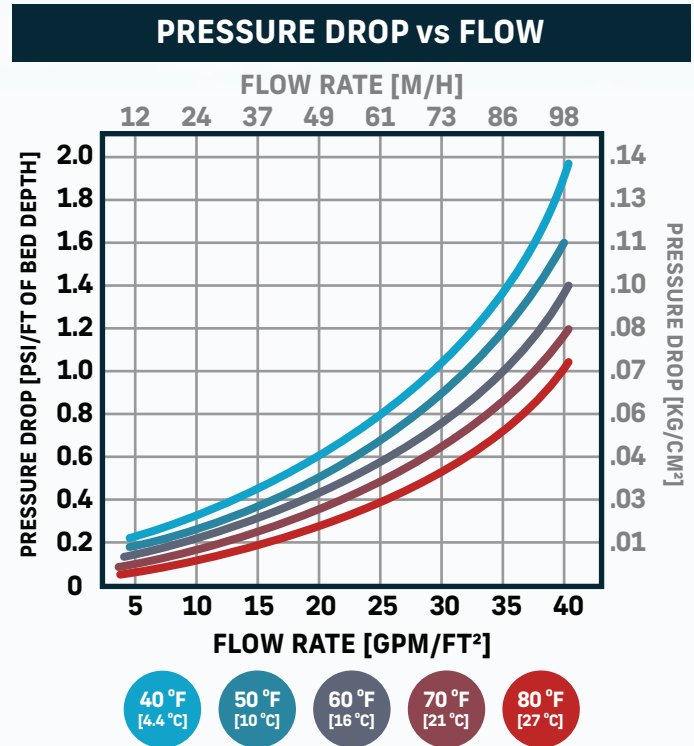
- Filtration : 3-5 Micron (Nominal)
- Surface Loading : 16-20 gpm/ft² (Typical)
12 gpm/ft² (Optimized For Silt, SDI & Ultrafine Particulates)

SERVICE FLOW : 15 GPM + FILTRATION : <10 MICRON		
EXAMPLE #1	next TM SAND	MULTIMEDIA
SURFACE LOADING	15 gpm/ft ²	5 gpm/ft ²
SURFACE AREA REQ.	1.0 ft ²	3.0 ft ²
TANK DIMENSIONS	14" x 65"	24" x 71"
MEDIA VOLUME REQ.	3.2 ft ³	10.8 ft ³
MEDIA WEIGHT	216 lbs	1057 lbs
BACKWASH FLOW REQ.	17 gpm	51 gpm
DAILY BACKWASH VOLUME	179 gal	510 gal
FILTRATION	<5 micron	<10 micron
COMPARATIVE COST	1x	3x

SERVICE FLOW : 45 GPM + FILTRATION : <10 MICRON		
EXAMPLE #2	next TM SAND	MULTIMEDIA
SURFACE LOADING	15 gpm/ft ²	5 gpm/ft ²
SURFACE AREA REQ.	3.0 ft ²	9.0 ft ²
TANK DIMENSIONS	24" x 72"	42" x 72"
MEDIA VOLUME REQ.	9.5 ft ³	35.3 ft ³
MEDIA WEIGHT	672 lbs	3469 lbs
BACKWASH FLOW REQ.	53 gpm	153 gpm
DAILY BACKWASH VOLUME	556 gal	1530 gal
FILTRATION	<5 micron	<10 micron
COMPARATIVE COST	1x	3.3x

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

OPERATING CHARACTERISTICS	
SERVICE FLOW	12-20 GPM/FT ²
BACKWASH FLOW	13-22 GPM/FT ²
BACKWASH DURATION	5-15 MINUTES
BACKWASH EXPANSION	40% - 50%
BACKWASH FREQUENCY	DELTA-P DETERMINED
BED DEPTH	30"-48" (DEPENDING ON APPLICATION)



TYPICAL BACKWASH FLOW REQ. vs WATER TEMP*					
FLOW vs TEMP	40°F [4.4°C]	50°F [10°C]	60°F [16°C]	70°F [21°C]	80°F [27°C]
gpm/ft ²	12.5	14.8	17.2	19.8	22.3
m/h	30.6	36.2	42	48.4	54.5

*40% BED EXPANSION

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