Benefits, case studies and specifications





Save thousands of dollars on

backwashes

maintenance

man hours

water

electricity

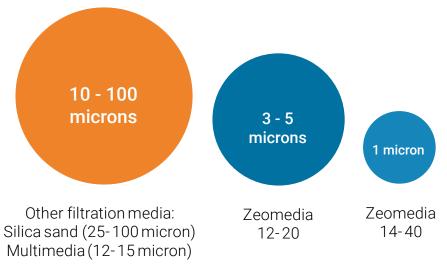
filter elements spare parts

in you water treatment.

Make your water treatment plant more efficient!

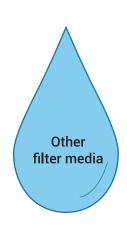
Greater water savings during start-up and operation.

Zeomedia is made of the only high-purity, chemical pre-washed zeolite Ensuring a superior performance and an easy and hassle-free starting





+ Particle retention of up to 1 micron.





NSF

Certified to NSF/ANSI 61

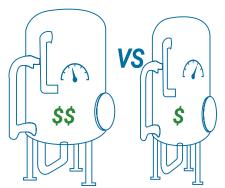
- + 80% less time and water spending per backwash.
- + Triple the operating cycle of your filters.

Multimedia: 70% silica sand 20-40, 15% antracite, 15% filter ag.

Reduce your capital and operating cost

Due to his high porosity and permeability,
Zeomedia provides twice as much flux capacity than multimedia

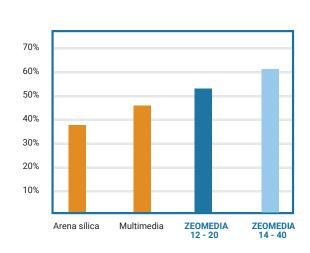
- + Does not require aerators to expand the filtration bed.
- + Double filtration speed.
- + 30% less filtration area, which translates less material.



- + 50% greater filtration stroke vs. multimedia.
- + Up to 30% less wear and fouling on the rest of the filter elements.
- Up to 50% savings in water and energy in backwashes.

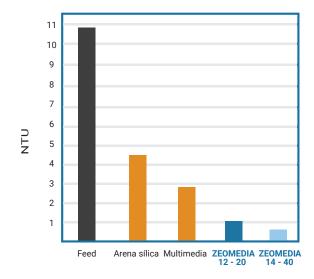


Greater elimination of solids, which translates into less wear on the rest of the filter elements.



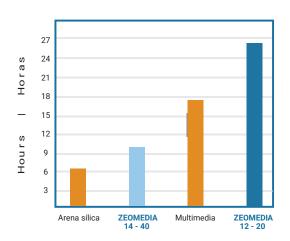


Reduces up to 35% SDI more than Multimedia



Turbidity removal

Reduces more than 50% Turbidiy than Multimedia



Filtration cycle

Up to 35% longer filtration cycles than multimedia filters

Save up to 50% filter space by doubling

doubling the filtration rate.



Reverse Osmosis Prefiltration in automotive mechanical plant

Comparative estimates for a feed flow of 18 m3 / hour and a tank operating with water from the municipal network as an influent.

Filter media	Zeomedia 14 x 40	Silica sand 14 x 40	Multimedia
Tank dimensions	36" x 72"	42" x 72"	36" x 72"
Total volume of filter media	20 ft²	30 ft²	20 ft²
Filtration rate	12 gmp/ft2	8 gmp/ft2	10 gmp/ft2
Average operational cycle	23.5hrs.	11.3 hrs.	22.1 hrs.
Filtered operating mass	54.12 kg/ciclo	26.02 kg/ciclo	50.90 kg/ciclo
Annual expenditure of water	5475 m³	11386.0 m³	5821.83 m³
Wear*	1x	1.2x	1.2x
CAPEX	1x	1.7x	1x
OPEX	1x	2.2x	1.3x

^{*}Estimated wear of filter elements by fouling.



Reduces energy consumption due to a

50% lower pressure differential.

Reverse Osmosis Prefiltration for thermoelectric plant

Comparative estimates for a supply flow of 140 m 3 / hour and three tanks operating plus one in standby with surface water. With a NTU supply of 15 - 23 NTU.

Filter media	Zeomedia 12 x 40	Silica sand 14 x 40	Multimedia
Tank dimensions	78" x 48"	102" x 48"	78" x 48"
Total volume of filter media	400 ft²	680 ft²	400 ft²
Filtration rate	8 gmp/ft2	5 gmp/ft2	8 gmp/ft2
Average operating cycle	12.1hrs.	4.3 hrs.	11.4hrs.
Filtered operating mass	28.87kg/ciclo	9.9 kg/ciclo	22.25 kg/ciclo
Daily expenditure of water	77.28 m³	403.2 m³	100.8m³
Wear*	1x	1.2x	1.2x
CAPEX	1x	1.7x	1.95x
OPEX	1x	2.2x	1.3x

Taylored solutions

The only company in the industry that offers a specialized solution for every application.

Zeomedia 14-40

Ground and municipal network water filtration.

Reverse Osmosis Systems.

Recirculating water filtration (cooling towers).

Zeomedia 12-20

Surface water and pool water filtration.

The confidence of being in good and expert hands:

Filterability tests in laboratory plant or pilot plant.

Assessment with filter train design based on simulations and projections.

CAPEX and OPEX analysis.

Technical support during installation, commissioning and operation stages.

Training and education for your team and clients.

Technical specifications

Physicochemical characteristics

Parameter	Standar	Zeomedia 12-20	Zeomedia 14-40
Volumetric weight	ASTM D7263-09	690 - 730 kg/m³	
Specific weight	ASTM D854-14	1.5 - 2.2 g/cm²	
Effective mesh size range		8 -20	14 - 40
Uniformity coefficient	ASTM D1921-18	1.48	1.27
Material below the mesh		2% max.	
Acid Solubility	ANSI/AWWA B100-89	Ма	x 5%
Grain firmness (N)	=TVT Texturometer	79	77.4
Superficial area	BET Method	35 - 40 m²/g	
Clinoptilolite	V rou diffraction	75 -	-83 %
Clays	X-ray diffraction	3% max.	

Operational parameters

	Zeomedia 12-20	Zeomedia 14-40	
Flux rate	8-20 gpm/ft ²	10-12 gpm/ft²	
Flux rate	20-50 m3*h/m²	26-32 m3*h/m²	
Maximum recommended	20 gpm/ft²		
flux rate	50 m3*h/m²		
Bacwash flux	18 gpm/ft²		
Bacwasii iiux	44 m3*h/m²		
Recommendend expansion	30%		
Dad biab	30'-48' pg	30'-48' pg	
Bed high	0,76-1,22 m	0,76-1,22 m	
Maximum recommended pressure	45 psi		
Backwash differential pressure	10-15 psi	10-15 psi	





ZEOMEDIA is manufacturated by Zeomex, the leading company in Mexico in the mining and production of zeolite products

Would you like to find out *more*? Let's talk!

Offices:

Lazaro Cardenas 1007 int 111, y 112, Santa Barbara cp 66270 San Pedro Garza García, N.L.

> T. (81) 3849 5959 ventas@zeomex.com.mx www.zeomedia.mx