



## THE NEW EDGE OF FILTRATION

**polyBALLS** will change the world of filtration with its new edge technology!

**polyBALLS** is universally used where conventional sand, multi-media or cartridge filters are used.

**polyBALLS** will lower costs, save energy and produce better quality filtration in a reduced amount of time.

**polyBALLS** has been proven scientifically to improve filtration of air, waste water, coolants, oils, and other lubricants.

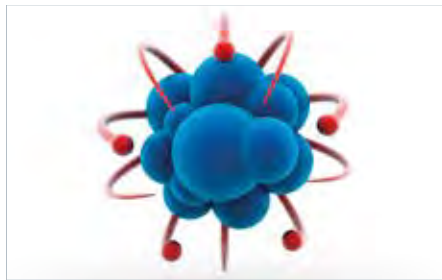
**polyBALLS** is an innovative and highly efficient filter for use in water purification at theme parks, aquariums, swimming pools, spas, and other water systems.

### BULLET POINTS



#### Lightweight

**polyBALLS** is lightweight (1 lbs of polyBALLS is equal to 75 lbs of #20 silica sand)



#### Filter Efficiency

**polyBALLS** removes particles below 5 microns.



#### Back-washable & Low Pressure Drop

**polyBALLS** is back-washable and has a very low initial pressure drop (0.5 psid)



[www.polyballs.us](http://www.polyballs.us)

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- Lower working pressure = Less energy consumed
- No need of flocculants
- 45% greater flow through yields quicker turnover of basin being filtered
- Replacement ratio is 75 lbs (1 ft<sup>3</sup>) sand to 1 lb (1 ft<sup>3</sup>) of **polyBALLS** = **polyBALLS** easier to handle
- Greater void volume yields greater contaminate holding and fewer backwashes
- When it is time for a change out and disposal, **polyBALLS** are 100% recyclable

## FILTRATION COMPARISON CHART

\*Actual lifecycle is dependent on liquids matrix and velocity over that lifetime. polyBALLS outlast sand.

PRODUCT EQUATION	Sand Media	Glass Media	Bag Filter	Cartridge	polyBALLS
INITIAL PRESSURE DROP	++	++	++	++	++++
DEEP FILTER BED APPLICATION	++++	++++	+	+	++++
MEDIA WEIGHT TO DIRT HOLDING RATIO	+	++	+++	++	++++
ENVIRONMENTALLY FRIENDLY	+	+	++	+++	++++
DISPOSAL OF WASTE	+	+	++	+	++++
RESITANCE TO BIOLOGICAL GROWTH	+	+++	+	+	++++
MICRON RATING	20µm	25µm	Various	Various	<5µm
LIFETIME	3-4 years*	3-4 years	Not Re-usable	Not Re-usable	5 years*
FREEZE RESISTANT	No	Yes	No	No	Yes
ENERGY EFFICIENCY	60%	50%	40%	40%	95%
CLEANING EFFICIENCY	54%	85%	90%	95%	98.5%
TENDENCY TO BLIND OFF	Yes	Yes	Yes	Yes	No
BACKWASHABLE	Yes	Yes	No	No	Yes
CLUMPING IN SITUATIONS	Yes	No	Yes	No	No
CHEMICAL RESISTANCE	Yes	Yes	Partly	Partly	Yes
PERFORMANCE RATING	3 / 16	5 / 16	0 / 16	2 / 16	16 / 16



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