



BioVitrum **SFERE**

Small, Big and Ag+

GLASS PEARLS FOR WATER FILTERS

Conforms to the following standards: UNI 10637/2015 and DIN 19643-1.

BioVitr^{um} SFERE

TECHNICAL SPECIFICATIONS AND QUALITIES

Filtering material for water filters, consisting of **potassium-sodium silicate glass** microspheres. **BioVitr^{um} Sfere** helps to achieve optimum backwashing efficiency - which also reduces water and electricity consumption by over 50% - thanks to the special shape of the pearls and the chemical and physical properties of the surface ensuring uniform distribution of partial electrical loads.

The chemical composition of **BioVitr^{um} Sfere** means it can be used to filter any kind of water: pool, drinking, process and sewage water. It also prevents the formation of surface limescale and silicate deposits, thereby avoiding the resulting «compacting» of the filtering material which results in preferential channels for leaks and causes the filtering material to perform less efficiently. The extreme roundness of BioVitr^{um} Sfere reduces the space for the passage of water between the glass balls that are only a few microns in size, making filtering effective and very fast (**50 m³/m²/h**). In multi-layer filters with uniform charge, filtration speed can reach 50 m³/m²/h in accordance with Italian standard **UNI 10637:2015**.

BioVitr^{um} Sfere Ag+ also available. In this variant the balls are coated with cationic and metallic silver, thereby reducing the formation of biofilm by up to **99%**.

GRANULOMETRY

- **BioVitr^{um} Sfere SMALL:** 0.60 - 0.80 mm
- **BioVitr^{um} Sfere BIG:** 1.2 - 2.5 mm
- **BioVitr^{um} Sfere Ag+ :** 0.60 - 0.80 mm*

MATERIAL

100% sodium and potassium silicate glass	
App. specific weight	1.45 - 1.5
g/cm ³	
Roundness	> 80 %

CHEMICAL COMPOSITION

SiO ₂	71,20 %
Fe ₂ O ₃	0,07 %
CaO	7,51 %
K ₂ O	1,27 %
AO	2,40 %
MgO	1,28 %
Na ₂ O	15,42 %
*Ag+	< 1000ppb

APPLICATIONS

- Filtering swimming pool water (BioVitr^{um} Sfere complies with both UNI 10637 and DIN 19643 standards)
- Filtering drinking water (BioVitr^{um} Sfere does not emit heavy metals into the filtered water)
- Filtering seawater and water used in natural swimming pools and decorative/fish breeding ponds
- Filtration of sewage water (the product is used in accordance with the particle sizes for coarse filtration and refining of sewage water before final drainage)
- Filtering process water (depending on the situation, BioVitr^{um} Sfere can be used as it is or in combination with other filtering methods: quartz, anthracite, active carbon, etc.)
- Filtering water for agricultural use (BioVitr^{um} Sfere's minimal tendency to compacting allows the surface water used in agriculture to be pre-treated prior to its introduction into irrigation lines, thus preventing the nozzles from blocking)
- Filtering of water for animal consumption

SAFETY NOTES

- Danger of slipping on the spilt product!
- Pick up and remove the product.
- Keep out of reach of children.

PACKAGING

20 kg sacks; on euro pallets (800 X 1200 X 144 mm); large sized packaging available on request. Available in a big bag on request.

BioVitr^{um} Sfere STN 05/02/2015 BARCHEMICALS S.r.l. reserves the right to change the formula in the product at any time and without prior warning. The new technical file automatically cancels out the previous one.