

FILTRATION & DISINFECTION

QDC DISINFECTION BEADS

DESCRIPTION

QDC Beads are a new generation of nanocomposite materials with activated surfaces specially designed to kill microorganisms from water, such as bacteria (E. coli, Staphylococcus, Legionella, etc), viruses (MS2) and protozoa (Cryptosporidium).

QDC Beads require no power, no chemicals and no maintenance. The beads are catalysts, with a discharged (positive) surface that attracts electrons. When water passes over the beads, the (negatively charged) microorganisms' entire molecular structure collapses, and they are instantly killed.

FEATURES

- Disinfects water to ensure its potability and suitability for drinking. Rigorously tested by independent labs in USA, Europe and Asia
- QDC Beads are a ceramic: alumina based, solid, odourless and insoluble. The beads do not leach any substance into water; no ions, no chemicals, etc.
- QDC Beads are supplied as packed beds in either vessels, cartridges, filters or other devices with an inlet and outlet, providing that no liquid by-pass is permitted
- Ideal for rainwater treatment systems as an alternative to UV treatment

SERVICE LIFE

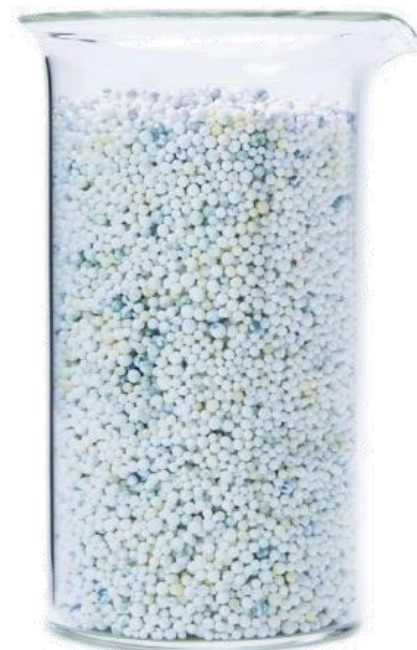
Although the positive charge on the surface of the ceramic beads does not expire, suspended solids or other particles can still enter the vessels/cartridges and clog the activated surfaces, leading to slow losses of germicide activity. As such, it is recommended QDC Beads be replaced every 2-3 years.

CERTIFICATIONS

NSF Certified Component to NSF/ANSI 42
IAPMO Certified Component to NSF/ANSI 61

CLAIM

The QDC Beads described in this brochure have been independently tested for the reduction of E. coli bacteria and MS2 virus from waters pre-treated for drinking. QDC Beads are not intended for waters that have not first undergone suitable pre-treatment or filtration, nor are they intended for converting raw sewage or wastewater into microbiologically safe drinking water.



BENEFITS OVER CONVENTIONAL UV SYSTEMS

- No power required
- No chemicals (i.e. mercury)
- No maintenance required

TECHNICAL SPECIFICATIONS

Chemical composition	Al ₂ O ₃ – TiO ₂ - AgCl
Physical state	Solid
Solubility	Insoluble
Colour	White with blue
Odour	Odourless
Shape	Sphere
Particle size (average)	2 (mm)
Apparent density	0.75 (g/cm ³)