



ISOLITE®CG PRODUCT DESCRIPTION For Pond Biological Filtration Media

Isolite®CG (FES US Patent 5,733,067)

Isolite®CG is produced from diatomaceous earth, is a support matrix, have internal pores large enough to house an abundant number of microorganisms that can be designed to target a great number of pollutants in soil and water.

IMMOBILIZED BIOMASS/FLUIDIZED BED TREATMENT

ISOLITE®CG is a porous ceramic biofiltration media.

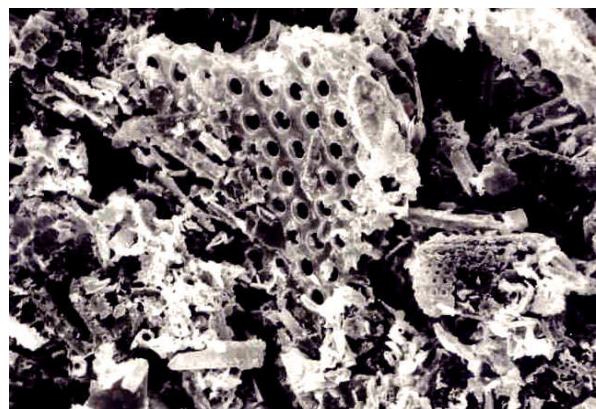
ISOLITE®CG is ideally suited for immobilization of microbes and enzymes for continuous wastewater treatment processes, ponds, floating wetlands, and sewage treatment.

ISOLITE®CG filtration cell supports improve treatment in:

- Matrix Stability
- Optimize Concentration/Viability of Treatment Bacteria
- Provide Stable Support for Continuous Cell Growth
- Protect Treatment Floc from Flushing or Shear Kill



ISOLITE®CG – 2mm Diameter



Technical Specifications:

- Median Pore Size is 1.3 microns
- Specific Surface Area is 49 square feet per each gram
- One Cubic Foot = 16 Acres of Surface Area
- 1 gram of supports 2×10^7 bacteria for colonization (**200,000,000**)
- Weight of One Cubic Foot of **ISOLITE®CG** = 32 Pounds
- There are 1728 cubic inches in a cubic foot
- Chemically and Physically Inert; Will **Not** Breakdown

ISOLITE®CG Porous Ceramic Specifications:

- Total Intrusion Volume (cc/gram) - **.5786**
- Total Percent Porosity - **74.18**
- Total Surface Area (m²/gram) - **20.42**
- Median Pore Diameter [Based on volume in Microns - **1.36**
- Median Pore Diameter (Based on surface area) in Microns - **.007**
- Standard Deviation (Based on volume) in Microns - **.0317**
- Standard Deviation (Based on surface area) In Microns - **.0034**
- Average Pore Diameter (4V/S) in Microns - **.1139**
- Bulk Density (g/cc) - **.949**