



## **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.

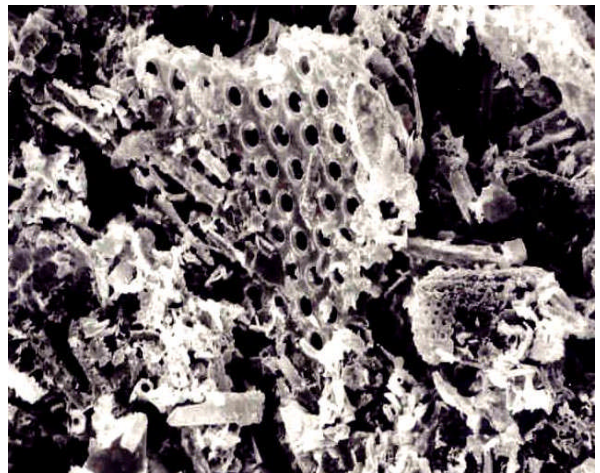
### **IMMOBILIZED BIOMASS/FLUIDIZED BED TREATMENT**

**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



## 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 **ISOLITE®CG** supports  $2 \times 10^7$  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) - <b>.5786</b>                       | - Standard Deviation (Based on volume) in Microns - <b>.0317</b>       |
| - Total Percent Porosity - <b>74.18</b>                                 | - Standard Deviation (Based on surface area) In Microns - <b>.0034</b> |
| - Total Surface Area (m <sup>2</sup> /gram) - <b>20.42</b>              | - Average Pore Diameter (4V/S) in Microns - <b>.1139</b>               |
| - Median Pore Diameter [Based on volume in Microns - <b>1.36</b>        | - Bulk Density (g/cc) - <b>.949</b>                                    |
| - Median Pore Diameter (Based on surface area) in Microns - <b>.007</b> |  |