

# Doulton Supercarb Element



## 10 Inch Supercarb Candle/ 9 3/4 Inch Cartridge Water Filter Element

These cleanable filter elements are designed to remove suspended solids, pathogenic bacteria, chlorine, and organic chemicals. They have a Sterasyl ceramic shell with an internal 1 micron (nom.) carbon block post filter. This carbon block has a major advantage over the granular activated carbon (GAC) used in the SuperSterasyl element because of its fine porous structure. This structure assures a more intimate contact with the water as it passes through the filter which makes this element suitable for high pressure systems. The highly active micro-surfaces of the carbon matrix have an efficiency and capacity nearly six times that of conventional GAC. These filter elements have been tested in accordance with NSF protocols for cyst, turbidity, particulate, and chlorine reduction (Class 1). The candle is fitted with a threaded plastic cap on one end; the cartridge is open on both ends.

- Maximum working pressure ..... 125 psig
- Maximum working temperature ..... 100° F
- Minimum working temperature ..... 40° F
- Recommended flow rate .....  $\frac{1}{3} - \frac{1}{2}$  gal/min<sup>1</sup>
- Recommended cleaning frequency ..... when flow rate is noticeably lower
- Recommended change frequency ..... 12 months or 1000 gallons, whichever is sooner

### Contaminant Removal

#### Pathogenic bacteria

*Cholera, Typhoid, Salmonella, Serratia, E. Coli, Fecal Coliform* - >99.99% removal

#### Cysts

*Cryptosporidium Parvum, Giardia Lamblia* - 100% removal (based on tests by Arizona State University)

#### Sediment

Down to 0.9 micron 100%, absolute; 0.5 - 0.8 micron with a filtration efficiency of >99.99% (based on tests by Spectrum Laboratories - MN - USA)

#### Organic Chemicals

Pesticides, herbicides and organic solvents

#### Metals

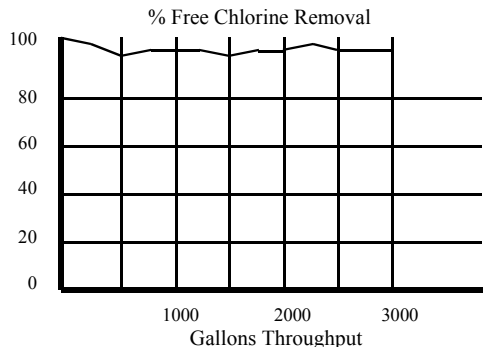
Iron, Aluminum

#### Taste & Color

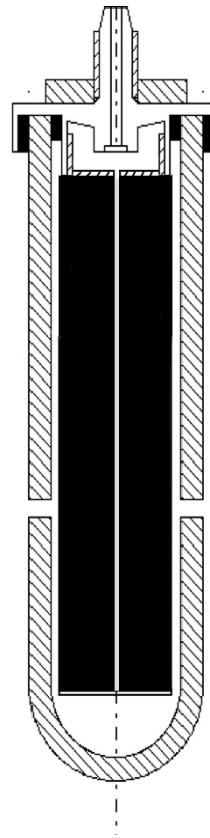
Hydrogen Sulphide, Iron, etc.

#### Free Chlorine Removal

The graph below shows the effectiveness of the Supercarb in removing chlorine from water. Test conditions were as follows: 2ppm free chlorine, 0.50 - 0.75 gpm flow rate, 7.4 pH, 54°F, 0.60 mg/l TOC.



10 Inch Candle



9 3/4 Inch Cartridge

