

# Imperial SuperSterasyl 7" Candle



## Imperial SuperSterasyl 7" Water Filter Candle

This cleanable filter element is designed to reduce suspended solids, pathogenic bacteria, organic chemicals, and improve taste and odor. The ceramic Sterasyl shell composition and manufacture have been delicately balanced to control the maximum pore size, flow rate, and element hardness<sup>1</sup> and eliminate the need for sterilization after cleaning. The bore of the element contains granular activated carbon, to reduce organic chemicals and improve the color, taste, and odor of drinking water. This element is suitable for gravity and low pressure systems; it is not recommended for high pressure (high flow rate) systems. The Imperial SuperSterasyl 7" element is only available as a "candle" (fitted with a threaded plastic cap on one end). The Imperial SuperSterasyl 7" candle features a 2.75" OD for greater flow rates and is supplied complete with wing nut and washer for gravity applications.

- Maximum working pressure ..... 125 psig
- Maximum working temperature ..... 100° F
- Minimum working temperature ..... 40° F
- Recommended flow rate ..... 1/2 gal/min<sup>2</sup>
- Recommended cleaning frequency ..... when flow rate is noticeably lower
- Recommended change frequency ..... 6 months or 2000 gallons, whichever is sooner

### Contaminant Removal

The great majority of pathogenic (disease causing) bacteria and cysts are larger than one micron<sup>3</sup>. The pore size of the ceramic filter element is controlled so that it will remove all suspended matter larger than 0.9 microns. The granulated carbon will remove organic chemicals, as well as improve drinking water color, taste, and odor. The granular activated carbon also reduces chlorine and lead in water, especially when used in gravity filters.

#### 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%; nominal rating of 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.

<sup>1</sup> The candle needs to be soft enough so that when it is cleaned, a small amount of the surface ceramic can be removed along with the accumulated particulate matter.

<sup>2</sup> Higher flow rates can be achieved, however chemical reduction efficiency will suffer.

<sup>3</sup> A micron is 1/1000 of a millimeter. The diameter of the average human hair is about 40 microns.

7 Inch Imperial Candle

