## Filter Performance

### Candle Grade Selection

Selection of the most appropriate grade of candle allows filter performance to be matched to the requirements of the local water conditions.

<table>
<thead>
<tr>
<th>Candle Grade/Name</th>
<th>Sterasyl®</th>
<th>Super Sterasyl®</th>
<th>ATC Super Sterasyl®</th>
<th>Supercore™</th>
<th>BioTect Super</th>
<th>Ultracarb™</th>
<th>BioTect Ultra</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Slow impregnated ceramic microfilter</td>
<td>Sterasyl® microfilter plus granular activated carbon</td>
<td>Sterasyl® microfilter plus granular activated carbon and lead removal media</td>
<td>Sterasyl® microfilter plus carbon block core</td>
<td>Sterasyl® microfilter plus carbon block core and lead removal media</td>
<td>Sterasyl® microfilter plus carbon block core and heavy metals removal media</td>
<td>Sterasyl® microfilter plus carbon block core and heavy metals removal media</td>
</tr>
</tbody>
</table>

### Filtration Rating (% particulate filtration efficiency)

- **Absolute (defined as >99.99%)**
  - 0.9 micron
  - 0.9 micron
  - 0.9 micron
  - 0.9 micron
  - 0.9 micron
  - 0.9 micron
  - 0.9 micron
  - 0.9 micron

- **Nominal (defined as >99.9%)**
  - 0.5 to 0.8 micron
  - 0.5 to 0.8 micron
  - 0.5 to 0.8 micron
  - 0.5 to 0.8 micron
  - 0.5 to 0.8 micron
  - 0.5 to 0.8 micron
  - 0.5 to 0.8 micron
  - 0.5 to 0.8 micron

- **Nominal (defined as >97%)**
  - 0.2 to 0.3 micron
  - 0.2 to 0.3 micron

### Working Parameters

- **Working Pressure (for pressure filter use)**
  - Minimum: 10 psi
  - Maximum: 125 psi

- **Working Temperature Range**
  - 5 – 30 (°C)
  - 5 – 30 (°C)
  - 5 – 30 (°C)
  - 5 – 30 (°C)
  - 5 – 30 (°C)
  - 5 – 30 (°C)
  - 5 – 30 (°C)
  - 5 – 30 (°C)

- **pH Range**
  - 5.5 - 9.5
  - 5.5 - 9.5
  - 5.5 – 9.5
  - 5.5 – 9.5
  - 5.5 – 9.5
  - 5.5 – 9.5
  - 5.5 – 9.5
  - 5.5 – 9.5

- **Suitable for use in Gravity filters**
  - Yes
  - Yes
  - Yes
  - N/A
  - N/A
  - N/A
  - N/A
  - N/A

- **Recommended Change Frequency**
  - 12 months
  - 6 months
  - 6 months
  - 6 months
  - 6 months
  - 6 months
  - 6 months
  - 6 months

### Flow Rate

- **Unrestricted Flow at 3 Bar Pressure**
  - Litres per minute: 5
  - US gallons per minute: 1.33

- **To achieve maximum performance**
  - Litres per minute: 1.2
  - US gallons per minute: 0.33

### Capacity

- **Before replacement for guarantee performance**
  - Litres: 10,000
  - US gallons: 2600

### Quality Approval

- **Certified version available**
  - Yes
  - Yes
  - Yes
  - No
  - No
  - No
  - Yes
  - Pending

### Pathogenic Organisms

- **% Bacteria Removal**
  - E. Coli / Cholera / Shigella / Typhoid / Klebsiella Terrigena: >99.99%

- **% Cyst Removal**
  - Cryptosporidium: >99.99%
  - Giardia: >99.99%

### Trace Organics Removal

- **Insecticides**
  - Lindane: >85%
  - Atrazine: >85%

- **Herbicides**
  - Atrazine: >85%
  - Phenols: >85%

- **Polyaromatic Hydrocarbons**
  - PAHs: >95%

### Enhanced Organics Removal

- **Lindane**
  - 2ppb presence: Ave 85%

- **Atrazine**
  - 9ppb presence: Ave 90%

### Inorganics Removal

- **Free Chlorine Removal**
  - 2ppm presence to NSF Class 1 Std 42: Ave 85%

- **Monochloramine Reduction**
  - 3ppm presence: Ave 64% (wet 400 USG)

### Heavy Metals Removal

- **Lead Reduction** (at 0.1ppb and 1.0ppb)
  - 0.1ppb: Ave 85%
  - 1.0ppb: Ave 85%

- **Mercury Reduction** (at 0.2ppb)
  - 0.2ppb: Ave 95%

### Scale Inhibition

- Slow release scale inhibitor available with Ultracarb™ S5 and Supercore™ S5 ceramic filter candles.

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**State restrictions may limit the availability of certain products in California, Iowa and Wisconsin. For product availability in these States please refer to our website: www.faireyceramics.com**

+ NSF certified replacement elements are Doulton Sterasyl®, Doulton® Supercarb® and Doulton® Ultracarb® as verified by testing in HIP Inline systems.

‡ Internally generated test data.