Drinking Water Filters
Healthy water, healthy life.
Doulton® and British Berkefeld® provide customers, whatever their situation, with top quality, UK manufactured water filters that perform consistently every time and gives them clean, healthy, great-tasting water anytime, anywhere.

Quality
In general, the smaller the pore size of a filter and the more complicated the path the water takes through the filter medium, the more effective it is at removing particles from water. A ceramic has a small and complex pore structure, making it an ideal filter medium.

The pore structure of Doulton® and British Berkefeld® ceramic drinking water filters is accurately controlled. This expertise gives the candles the highly consistent pore structure necessary to remove a wide range of water borne contaminants over the life of the filter.

All stages of FICL’s drinking water filter production process adhere to the stringent BS EN ISO 9001 quality standards. FICL holds the coveted NSF® and WRAS certificates, demonstrating that our drinking water filters have passed the highest international testing standards.

Our high quality standards are why the Doulton® and British Berkefeld® brand names are so well known and respected for use in home water filtration systems around the world. Customers can, as a result of our exacting standards, expect the same high quality from our filters every time they are used.

Performance
Millions of ceramic filter candles are produced annually, which sell to 140 countries worldwide. This global success is because Doulton® and British Berkefeld® drinking water filters are so versatile – they will do a job on any water supply:

- Highly effective barrier to particles and pathogens - a pore structure down to 0.2 microns to offer maximum protection.
- Long Life / Long term value - the filters may be cleaned, when used on turbid water, which allows re-use and gives 6-12 months life.
- Natural - the ceramic is made from 100% natural earths and uses coconut shell carbon.
- Minerals maintained - the filters do not remove those minerals from the water which are beneficial to health.
- Enhanced anti-bacterial properties - FICL’s ceramics contain trace elements of silver to inhibit microbiological growth within the ceramic element.
- Multi-stage filtration in one cartridge - other filter media can be put inside the ceramic filter candle. Activated carbon can be incorporated to remove chlorine, or an ion exchange media to remove heavy metals such as lead.

Price
Bottled water is expensive to buy, produces a lot of plastic waste, and the carbon footprint of transporting those bottles of water is enormous.

Healthy water that doesn't cost the Earth - installing a filter system offers a much greener as well as cheaper alternative way of drinking good quality water.

Brand
Doulton® water filters have now been manufactured continuously in the UK for more than 185 years. In the 19th Century, the River Thames was London’s main water supply – and sewer. Henry Doulton discovered that filtering water through a porous ceramic could stop people becoming sick from cholera and other water-borne diseases.

Fairey Industrial Ceramics Limited (FICL) is the sole manufacturer of the world famous range of Doulton® and British Berkefeld® ceramic drinking water filters. All ceramic water filter products are manufactured in FICL’s factory based in North Staffordshire, UK, the traditional home of the ceramic industry in England.
Continuing the revolution in Ceramic Filtration Technology.

Filter Grades

Doulton® and British Berkefeld® ceramic filter elements are available in 6 grades. The grade you ultimately choose will depend on which contaminants you want to remove from the water.

At the heart of every Doulton® and British Berkefeld® water filter candle is a Sterasyl® silver impregnated ceramic microfilter. The incorporation of silver locked within the ceramic structure inhibits the growth of bacteria on the filter, eliminating the need for boiling.

By incorporating activated carbon in the form of granular carbon or carbon block, the Sterasyl® ceramic can also be produced in Super Sterasyl®, Supercarb® and Chlorasyl® grades which combine the advantages of ceramic and carbon treatment within a single filter element.

At the top end of the product range the ATC Super Sterasyl® and Ultracarb® candles have an additional ion exchange media which reduces Lead and other harmful heavy metals.

The Supercarb SI® and Ultracarb SI® candles also incorporate a slow release scale inhibitor to reduce the unwanted effects of scale build-up.

Filter Performance

Verified by independent laboratories

<table>
<thead>
<tr>
<th>Filter Performance</th>
<th>Sterasyl®</th>
<th>Super Sterasyl®</th>
<th>ATC Super Sterasyl®</th>
<th>Supercarb®</th>
<th>Chlorasyl®</th>
<th>Ultracarb®</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Absolute Filtration Efficiency</strong></td>
<td>0.9 micron</td>
<td>0.9 micron</td>
<td>0.9 micron</td>
<td>0.9 micron</td>
<td>0.9 micron</td>
<td>0.9 micron</td>
</tr>
<tr>
<td><strong>Nominal Filtration Efficiency</strong></td>
<td>0.5 to 0.8 micron</td>
<td>0.5 to 0.8 micron</td>
<td>0.5 to 0.8 micron</td>
<td>0.5 to 0.8 micron</td>
<td>0.5 to 0.8 micron</td>
<td>0.5 to 0.8 micron</td>
</tr>
<tr>
<td><strong>Working Pressure</strong></td>
<td>5 - 30°C</td>
<td>5 - 30°C</td>
<td>5 - 30°C</td>
<td>5 - 30°C</td>
<td>5 - 30°C</td>
<td>5 - 30°C</td>
</tr>
<tr>
<td><strong>Working Temperature</strong></td>
<td>0.5 - 8.5</td>
<td>0.5 - 8.5</td>
<td>0.5 - 8.5</td>
<td>0.5 - 8.5</td>
<td>0.5 - 8.5</td>
<td>0.5 - 8.5</td>
</tr>
<tr>
<td><strong>Suitable for use in Gravity Filters</strong></td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Flow Rate</strong></td>
<td>6 months</td>
<td>6 months</td>
<td>6 months</td>
<td>6 months</td>
<td>6 months</td>
<td>6 months</td>
</tr>
<tr>
<td><strong>To achieve maximum performance</strong></td>
<td>5.9</td>
<td>1.9</td>
<td>1.9</td>
<td>1.9</td>
<td>1.9</td>
<td>1.9</td>
</tr>
<tr>
<td><strong>Capacity</strong></td>
<td>1.25</td>
<td>1.25</td>
<td>1.25</td>
<td>1.25</td>
<td>1.25</td>
<td>1.25</td>
</tr>
<tr>
<td><strong>Unrestricted Flow at 3 Bar Pressure</strong></td>
<td>0.9 micron</td>
<td>0.9 micron</td>
<td>0.9 micron</td>
<td>0.9 micron</td>
<td>0.9 micron</td>
<td>0.9 micron</td>
</tr>
<tr>
<td><strong>Physical Organisms</strong></td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td><strong>Bacteria Removal</strong></td>
<td>E. Coli / Salmonella / Shigella / Typhoid / Yersinia</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td><strong>Cyst Removal</strong></td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td><strong>Turbidity Reduction</strong></td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td><strong>Free Chlorine Removal</strong></td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td><strong>Microbiocidal Reduction</strong></td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td><strong>NSF certified replacement elements are Doulton Sterasyl®, Doulton® Supercarb® and Doulton® Ultracarb®, as well as being listed in EP Water systems.</strong></td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
</tr>
</tbody>
</table>

* Independently tested, see website for full technical and performance specifications and product availability.
Candle or Cartridge format?

There are two ceramic filter formats: Candle and Cartridge. The format you need will depend on the type of filter housing you are using and the flow rate you require.

Candle
Candles have a domed end and a plastic mount on the top to fix them into the filter housing. All Doulton® and British Berkefeld® filter housings use candle format filter elements. Other sizes can be manufactured to individual customer specifications.

Catalytic filter candles are available in:

<table>
<thead>
<tr>
<th>Grade</th>
<th>7'' Candle</th>
<th>10'' Candle</th>
<th>Slimline</th>
<th>Imperial</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sterasyl®</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Super Sterasyl®</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>ATC Super Sterasyl®</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Super Carb®</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Chloracarb®</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Ultragard®</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
</tbody>
</table>

Candles are manufactured as standard with a ¾ inch BSP threaded mount, available in two lengths:
- Short mount: ¾ inch/19mm.
- Long mount: 1 ½ inch/38mm.

The type of mount as well as the length and diameter of the candle will be dictated by the filter housing.

Typical Candle Flow Rates 49mmØ

<table>
<thead>
<tr>
<th>Pressure (psi)</th>
<th>Flow Rate (l/hr)</th>
<th>Flow Rate (US gals/hr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>10</td>
<td>10</td>
<td>2.5</td>
</tr>
<tr>
<td>20</td>
<td>20</td>
<td>5</td>
</tr>
<tr>
<td>30</td>
<td>30</td>
<td>7.5</td>
</tr>
<tr>
<td>40</td>
<td>40</td>
<td>10</td>
</tr>
<tr>
<td>50</td>
<td>50</td>
<td>12.5</td>
</tr>
<tr>
<td>60</td>
<td>60</td>
<td>15</td>
</tr>
<tr>
<td>70</td>
<td>70</td>
<td>17.5</td>
</tr>
<tr>
<td>80</td>
<td>80</td>
<td>20</td>
</tr>
<tr>
<td>90</td>
<td>90</td>
<td>22.5</td>
</tr>
<tr>
<td>100</td>
<td>100</td>
<td>25</td>
</tr>
</tbody>
</table>

Typical Cartridge Flow Rates

<table>
<thead>
<tr>
<th>Pressure (psi)</th>
<th>Flow Rate (l/hr)</th>
<th>Flow Rate (US gals/hr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>10</td>
<td>10</td>
<td>2.5</td>
</tr>
<tr>
<td>20</td>
<td>20</td>
<td>5</td>
</tr>
<tr>
<td>30</td>
<td>30</td>
<td>7.5</td>
</tr>
<tr>
<td>40</td>
<td>40</td>
<td>10</td>
</tr>
<tr>
<td>50</td>
<td>50</td>
<td>12.5</td>
</tr>
<tr>
<td>60</td>
<td>60</td>
<td>15</td>
</tr>
<tr>
<td>70</td>
<td>70</td>
<td>17.5</td>
</tr>
<tr>
<td>80</td>
<td>80</td>
<td>20</td>
</tr>
<tr>
<td>90</td>
<td>90</td>
<td>22.5</td>
</tr>
<tr>
<td>100</td>
<td>100</td>
<td>25</td>
</tr>
</tbody>
</table>

Cartridge
Cartridges (OBEs) have a plastic mount and rubber washer at both ends. They are designed to fit industry standard 10 inch filter housings.

Cartridges are manufactured at a standard length of 9 ¾"/248mm and two standard diameters:
- Slimline: 2 inches/49mm
- Imperial: 2¾ inches/67mm

The type of mount as well as the length and diameter of the cartridge will be dictated by the filter housing.

Sediment & Particle Pre Filter
In areas of high sediment, this pre filter will remove sediment and particles down to 5 microns in size.

Cleansoft™ Pre Filter
Protect against the damaging effects of hard water by using the Cleansoft™ limescale reduction cartridge. This will reduce hardness in drinking water and the unpleasant ‘chalky’ taste that hard water can have.

Fluoride Pre Filter
The fluoride reduction cartridge reduces unwanted naturally occurring and added fluoride to safe levels in your mains supplied drinking water.

Typical Element & Grade Availability

Candles
Catalytic filter candles are available in:
- Slimline: 2 inches/49 mm
- Imperial: 2¾ inches/67mm

Water treatment cartridges
Water treatment cartridges allow the removal of additional contaminants from your drinking water.

They are compatible with the under-counter and countertop range of housings and can also be used in the DUO™ housing alongside your choice of ceramic filter candle.

Filter elements Ceramic technology you can trust.

www.faireyceramics.com
Filter housings  A solution for every situation.

Under-counter Inline filters
Designed to be fitted to the mains cold water pipe underneath the kitchen counter and are highly robust as they are under water pressure all the time.

**HIS/Push-fit**
- **Material**: Stainless Steel Body, Chromium Plated Brass Base
- **Connections**: Diverter valve fits onto most common threaded kitchen mixer taps
- **Number of filter candles**: 1
- **Type of filter candle**: 10 inches long x 2 inches in diameter (254 x 49mm) short threaded mount
- **Flow Rate**: 275 L/hour

**HCP**
- **Material**: Stainless Steel
- **Connections**: Diverter valve fits onto most common threaded kitchen mixer taps
- **Number of filter candles**: 1
- **Type of filter candle**: 10 inches long x 2 inches in diameter (254 x 49mm) short thread
- **Flow Rate**: 300 L/hour

**HCS**
- **Material**: Stainless Steel Body, Chromium Plated Brass Base
- **Connections**: Diverter valve fits onto most common threaded kitchen mixer taps
- **Number of filter candles**: 1
- **Type of filter candle**: 10 inches long x 2 inches in diameter (254 x 49mm) short thread
- **Flow Rate**: 300 L/hour

**EcoFast**
- **Flow Rate**: 300 L/hour

**HIS**
- **Material**: Stainless Steel Body, Chromium Plated Brass Head
- **Connections**: 1/4 inch BSP threaded inlet & outlet
- **Number of filter candles**: 1
- **Type of filter candle**: 10 inches long x 2 inches in diameter (254 x 49mm) short threaded mount
- **Flow Rate**: 300 L/hour

Counter-top filters
Situated on the kitchen counter next to the sink, counter-top filters are very popular with people who want very easy access to their water filters.

**HIS/Push-fit**
- **Material**: Stainless Steel Body, Chromium Plated Brass Base
- **Connections**: 1/4 inch BSP threaded inlet & outlet
- **Number of filter candles**: 1
- **Type of filter candle**: 10 inches long x 2 inches in diameter (254 x 49mm) short threaded mount
- **Flow Rate**: 300 L/hour

**HCP**
- **Material**: Stainless Steel
- **Connections**: Diverter valve fits onto most common threaded kitchen mixer taps
- **Number of filter candles**: 1
- **Type of filter candle**: 10 inches long x 2 inches in diameter (254 x 49mm) short thread
- **Flow Rate**: 300 L/hour

Due to a policy of continuing product development Fairey Industrial Ceramics Limited reserves the right to change any information without prior notice.

* Please refer to filter performance table for flow rates for specific candle grades

www.faireyceramics.com
Filter housings Versatile and flexible.

Wall-mounted filters
Providing easy access, these filters are designed to be wall-mounted in close proximity to the kitchen sink.

### HBA MK1
- **Material:** Nylon Coated Aluminium
- **Connections:** ½ inch BSP threaded inlet & outlet
- **Number of filter candles:** 1
- **Type of filter candle:** 10 inches long x 2 inches in diameter (254 x 49mm) short thread
- **Compatible candles:**
- **Flow Rate:** 300 L/hour

### HBA MK11
- **Material:** Food Grade Plastic
- **Connections:** ½ inch BSP threaded inlet & outlet
- **Number of filter candles:** 1
- **Type of filter candle:** 10 inches long x 2 inches in diameter (254 x 49mm) short thread
- **Compatible candles:**
- **Flow Rate:** 300 L/hour

Outdoor Recreation Water filters
For situations where there is no reliable pressurised mains water supply.

### HCA
- **Material:** High Density Polypropylene
- **Connections:** Water is poured manually into the upper chamber
- **Number of filter candles:** 1 or 2 candles
- **Type of filter candle:** 7 inches long x 2 diameter (178 x 49mm) long threaded mount & wing nut
- **Compatible candles:**
- **Flow Rate:** 0.85 or 1.5 L/hour – depending on number of candles installed

### LP2
- **Material:** Food Grade Plastic
- **Connections:** Water is poured manually into the upper chamber
- **Number of filter candles:** 2
- **Type of filter candle:** 7 inches long x 2 diameter (178 x 49mm) long thread and wing nut
- **Compatible candles:**
- **Flow Rate:** 1.7 L/hour

### SS
- **Material:** Stainless Steel
- **Connections:** Water is poured manually into the upper chamber
- **Number of filter candles:** 2, 3 or 4 candles
- **Type of filter candle:** 7 inches long x 2 diameter (178 x 49mm) long thread and wing nut
- **Compatible candles:**
- **Flow Rate:** 1.7, 2.5 or 3.1 L/hour – depending on number of candles installed

*Due to a policy of continuing product development Fairey Industrial Ceramics Limited reserves the right to change any information without prior notice.*
High Efficiency Filter
99.99% plus filtration of bacteria, cysts and particles*

Long-Life / Value for Money
Cleanable filter surface for prolonged life.

Anti-Bacterial Action
Proprietary system to inhibit microbiological growth on the filter. No boiling required.

Retains Essential Minerals
Keeps the minerals beneficial to health.

No Power Required
Cost effective to run. Protects without power.

MANUFACTURED BY FAIREY INDUSTRIAL CERAMICS LIMITED
Lymedale Cross, Lower Milehouse Lane, Newcastle-under-Lyme
Staffordshire, ST5 9BT, United Kingdom.

*Independently tested; see website for full technical and performance specifications and product availability.

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

Doulton®, British Berkefeld®, Sterasyl®, Supercarb®, Chlorasyl®, and Ultracarb®
are trademarks registered to Fairey Industrial Ceramics Limited.