







Ceramic Water Filter Candles and Cartridges

SterasylTM Ceramic

At the heart of every Doulton® and British Berkefeld® water filter candle is a 'SterasylTM' silver impregnated ceramic microfilter. Fairey Industrial Ceramics is the world's leading manufacturer of ceramic materials with closely controlled pore sizes. This expertise gives Doulton® and British Berkefeld® candles the highly consistent and controlled pore structure necessary to remove a wide range of water borne contaminants over the life of the filter. The incorporation of silver locked within the ceramic structure inhibits the growth of bacteria giving the candles self-sterilising properties and removes the need for regular boiling. By incorporating activated carbon in the form of a fine coating, granular carbon or carbon block, the Sterasyl™ ceramic can also be produced in **Super Sterasyl™** and **Supercarb™** 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 SterasyI™ and Ultracarb™ candles have an additional ion exchange media which reduces Lead and other harmful heavy metals.

Shipping Specifications

CANDLE	Quantity	Gross weight per carton		
GRADE	per carton	5 inch	7 inch	10 inch
─ Sterasyl [™]	25	5kg	6kg	8kg
— Super Sterasyl™	25	6kg	8kg	9kg
■ ATC Super Sterasyl [™]	25	6kg	8kg	9kg
Supercarb™	25	6kg	8kg	9kg
— Ultracarb™	25	6kg	8kg	9kg

Standard carton size 31 x 31 x 34cm

CARTRIDGE (OBE)	Quantity per carton		Gross weight per carton	
GRADE	49mm	67mm	49mm	67mm
— Sterasyl™	25	9	8kg	6kg
Super SterasyI™	N/A	9	N/A	6kg
— Supercarb™	25	9	9kg	6kg
— Ultracarb™	25	9	9kg	6kg

Standard carton size 31 x 31 x 34cm All sizes and weights are approximate

Dimensions

These Doulton® and British Berkefeld® Ceramic Filter candles are manufactured to a diameter of 2 inches/50mm and are available in three standard lengths - 10 inches/254mm, 7 inches/177mm and 5 inches/127mm. Other sizes can be manufactured to individual customer specification. Please quote the candle length required when ordering.

Mount Sizes

Doulton® and British Berkefeld® Candles are manufactured with a 1/4 inch BSP threaded mount in two lengths - 3/4 inch/19mm (short mount) or 1¹/₄ inch/36mm (long mount). Other types of mount can be manufactured to match specific filter housings and details are available on request. Please quote the mount type required when ordering.

Distributed by:

Quality Control

10 inch

Close control of material processing, manufacturing methods and quality and inspection procedures are essential to produce the highest quality ceramic filter candles. All genuine Doulton® and British Berkefeld® ceramic filter candles are manufactured in accordance with ISO 9001:2008 quality assurance procedures which ensures highly consistent product quality with full batch traceability in operation. Independent quality control approvals such as the NSF International standard 42 and 53, and WRAS approval ensures that product performance claims are verified to the highest level. Copies of third party and independent certifications are available on request.











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

Doulton® is a trade mark. Used under licence by Fairey Industrial Ceramics Ltd. British Berkefeld®, Sterasyl™, Super Sterasyl™, ATC Super Sterasyl™, Supercarb™ and Ultracarb™ are trademarks registered to Fairey Industrial Ceramics Ltd.











SterasyI™ Supercarb™ Super SterasyI™ **ATC Super** Ultracarb™ Silver impregnated Sterasyl microfilter SterasyITM Sterasyl microfilter Sterasyl microfilter Candle Grade 49mmø ceramic microfilter plus granular plus carbon block plus carbon block Sterasyl microfilter Selection of the most appropriate grade of candle allows filter activated carbon core and heavy metal plus granular activated performance to be matched to the requirements of the local removal media carbon and heavy water conditions. metal removal media 0.9 micron 0.9 micron Absolute (defined as >99,99%) 0.9 micron 0.9 micron 0.9 micron iltration Rating Nominal (defined as >99.9% 0.5 to 0.8 micron Minimum 10 psi 10 psi N/A 10 psi 10 psi Working Pressure for pressure filter use) Maximum 125 psi 125 psi N/A 125 psi 125 psi **Working Temperature Range** 5 - 38 (°C) 5.5 - 9.5 5.5 - 9.5 5.5 - 9.5 5.5 - 9.5 5.5 - 9.5 NO YES YES YES NO 12 months 6 months 6 months 6 months 6 months N/A Litres per minute 5 4.5 3.7 3.3 Flow Rate Unrestricted Flow at 3 Bar Pressure 1.33 N/A 0.9 US gallons per minute 1.2 1.5 1.9 N/A 1.2 I/hr under gravity 1.9 To achieve maximum Litres per minute performance N/A 0.4 0.3 g/hr under gravity 0.53 0.53 US gallons per minute Before replacement to Litres 10,000 2000 1500 3740 2244 guarantee performance 400 US gallons 2600 535 1000 600 **Quality Approval** NSE approved version available YES NO NO YES YES WRAS approved NO YES YES YES YES NSF turbidity reduction std .53 >98% >98% >98% >98% >98% Pathogenic >99.99% >99.99% >99.99% >99.99% >99.99% % Bacteria E. Coli Removal Vibrio Cholerae (Cholera) >99,99% >99,99% >99.99% >99.99% >99,99% Shigella >99.999% >99.999% >99,99% >99,999% >99,999% Salamonella Typhi (Typhoid) >99.999% >99.999% >99.99% >99.999% >99.999% Klebsiella Terrigena >99.999% >99.999% >99.99% >99,999% >99,999% Cryptosporidium >99.999% >99.999% >99.99% >99.999% >99,999% % Cyst Removal Giardia >99.999% >99.999% >99.99% >99.999% >99.999% Lindane @ 0.1ppb presence NO DATA N/A > 80% > 85% race Organics > 85% Atrazine @ 1.2ppb presence N/A NO DATA > 80% > 85% > 85% N/A NO DATA > 50% TCP @ 1.2ppb presence > 80% > 50% PAH's @ 0.2ppb presence N/A NO DATA > 80% > 95% > 95% Chloroform @ 150ppb presen NO DATA > 66% > 50% > 50% Under Gravity > 95% Under pressure > 50% > 95% under gravity > 94% > 97% NSF Class 1 std. > 97% NSF Class 1 std. 42 Inorganics Free Chlorine Removal | 2mg cl/l challenge N/A Removal N/A Lead Removal 98.3% NSF std. 53 @ pH 6.5 after 2.244L N/A N/A under gravity



Doulton's NSF certified products are only listed for specific claims against standard 42 and 53 as shown above.

@ pH 8.5 after 2.244L

Product Performance Claims

N/A

N/A

Contamination of drinking water takes many forms. Particular matter, dissolved chemicals and harmful bacteria are amongst the most common causes of poor drinking water quality. It is of vital importance that manufacturer's claims on the effectiveness of their products at removing these contaminants, are fully supported by proven test data. Fairey Industrial Ceramics places great emphasis on this aspect of product quality and has a programme of regular testing of its water filter products. Specially designed in-house test rigs are capable of measuring specific aspects of filter performance over prolonged periods. In addition, many of the world's leading independent laboratories, including NSF and Spectrum Laboratories in the USA, WRAS (formally WRc) and Hyder in England, regularly provide independent verification of all major product performance claims.

N/A

N/A

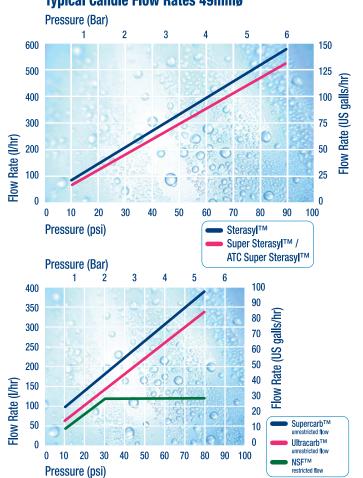
Fairey Industrial Ceramics Ltd -Doulton Water Filters

The Doulton® water filter has been continuously manufactured in the UK for over 150 years, and is in daily use world-wide in over 140 countries.

Today, Doulton® and British Berkefeld® water filters are manufactured close to the 'Potteries' area of North Staffordshire by Fairey Industrial Ceramics Limited, part of the Taylor Tunnicliff Group of Companies, which produce both Industrial and Consumer related ceramic products for a global market.

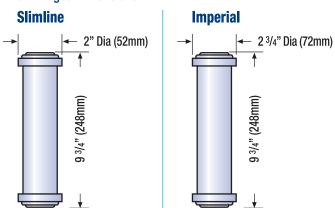
Fairey Industrial Ceramics Limited are renowned for manufacturing the world famous Doulton® and British Berkefeld® drinking water filters to the world's recognised Drinking Water quality standards, such as NSF, WRAS and the Water Quality Association. It is this attention to detail that sets us apart from the rest.

Typical Candle Flow Rates 49mmø

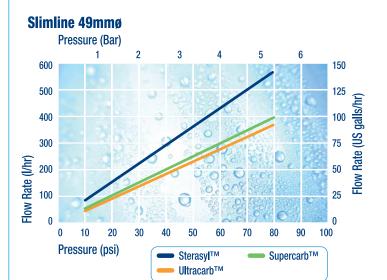


Cartridges Dimensions

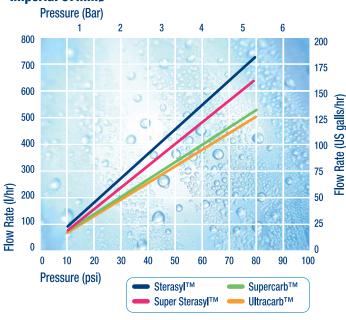
98.3% NSF std. 53



Ceramic Filter Cartridges (OBEs) to fit Industry Standard 10" Filter Housings



Imperial 67mmø



Ceramic Filter Cartridges (OBEs) Availability

GRADE	49mm Diameter	67mm Diameter
─ Sterasyl [™]	V	V
Super Sterasyl™	×	V
— Supercarb™	V	V
— Ultracarb™	V	V

Independently tested by the following institutions

Hyder (Formerly Acer / Altwell) Cheshire - UK • Spectrum Labs. Minnesota - USA WRAS Buckinghamshire - UK . Clare Microbiological, Suffolk - USA NSF Michigan - USA . Loughborough, University Leicestershire - UK Thresh, Beale & Suckling, Birmingham - UK • WRc Gwent - UK • University of Arizona - USA