

# Healthy water, healthy life.



## Filter Performance

Candle Grade 49mm		Sterasyli®	Super Sterasyli®	Ultra Sterasyli®	Chlorasyli®	Ultracarb®	BioTect Ultra®
Selection of the most appropriate grade of candle allows filter performance to be matched to the requirements of the local water conditions		Silver impregnated ceramic microfilter	Sterasyli® microfilter plus granular activated carbon	Sterasyli® microfilter plus granular activated carbon and lead removal media	Sterasyli® microfilter plus carbon block core	Sterasyli® microfilter plus carbon block core and lead removal media	Sterasyli® microfilter plus carbon block core and heavy metals removal media
<b>Filtration Rating</b> (% 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
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
<b>Working Pressure</b> (for pressure filter use)							
Minimum		10 psi	10 psi	N/A	10 psi	10 psi	10 psi
Maximum		125 psi	125 psi	N/A	125 psi	125 psi	125 psi
<b>Working Parameters</b>							
Working temperature range		5 – 30 (°C)	5 – 30 (°C)	5 – 30 (°C)	5 – 30 (°C)	5 – 30 (°C)	5 – 30 (°C)
Working 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
Suitable for use in Gravity filters		Yes	Yes	Yes	N/A	N/A	N/A
Recommended change frequency		12 months	6 months	6 months	6 months	6 months	6 months
<b>Flow Rate</b>							
Unrestricted Flow at 3 Bar Pressure up to Litres per minute		5	4.5	N/A	3.7	3.3	3.3
US gallons per minute		1.33	1.2	N/A	1	0.9	0.9
To achieve maximum performance							
Litres per minute		N/A	1.2 l/hr under gravity	1.2 l/hr under gravity	1.9	1.9	1.9
US gallons per minute		N/A	0.3 g/hr under gravity	0.3 g/hr under gravity	0.5	0.5	0.5
<b>Capacity</b>							
Before replacement to guarantee performance	Litres	10,000	2000	1500	3800	2300	2300
	US gallons	2600	535	400	1000	600	600
<b>Quality Approval</b>	NSF approved Turbidity reduction	YES >98%	YES >98%	NO >98%	NO >98%	YES >98%	‡PENDING >98%
<b>Pathogenic Organisms</b>							
% Bacteria Removal*	E. Coli / Cholera / Shigella / Typhoid / Klebsiella Terrigena	>99.99%	>99.99%	>99.99%	>99.99%	>99.99%	>99.99%
% Cyst Removal	Cryptosporidium Giardia	>99.99%	>99.99%	>99.99%	>99.99%	>99.99%	>99.99%
<b>Trace Organics Removal</b>							
Insecticides	Lindane @ 0.1ppb presence	N/A	NO DATA	NO DATA	NO DATA	>85%	>85%
Herbicides	Atrazine @ 1.2ppb presence	N/A	NO DATA	NO DATA	NO DATA	>85%	>85%
Phenols	TCP @ 1.2ppb presence	N/A	NO DATA	NO DATA	NO DATA	>50%	>50%
Polyaromatic Hydrocarbons	PAHs @ 0.2ppb presence	N/A	NO DATA	NO DATA	NO DATA	>95%	>95%
Trihalomethanes	Chloroform @ 150ppb presence	N/A	NO DATA	NO DATA	NO DATA	>50%	>50%
<b>Enhanced Organics Removal</b>							
Lindane	≥2ppb presence	N/A	>99%	>99%	Ave 95%	N/A	Ave 70%
Atrazine	≥9ppb presence	N/A	>99%	>99%	N/A	N/A	Ave 90%
Benzene	≥15ppb presence	N/A	>99% <sup>^</sup>	>99% <sup>^</sup>	Ave 87%	N/A	Ave 87%
<b>Inorganics Removal</b>							
Free Chlorine Removal	2ppm presence to NSF Class 1 Std 42	N/A	Under Gravity >99% Under Pressure >50%	>99% under gravity	>97%	94.2%	† >96%
<b>Monochloramine Reduction</b>							
3ppm presence		N/A	N/A	N/A	Ave 95% (600 USG)	N/A	N/A
2ppm presence		N/A	N/A	N/A	N/A	N/A	Ave 64%
<b>Heavy Metals Removal</b>							
Lead reduction pH6.5	@ 150ppb presence to NSF Std 53	N/A	N/A	>94% under gravity†	N/A	97.3%	98.9%
Lead reduction pH8.5	@ 150ppb presence to NSF Std 53	N/A	N/A	N/A	N/A	99.5%	†99.1%
Mercury reduction pH6.5	@ 6ppb presence	N/A	N/A	N/A	N/A	N/A	Ave 90%
Cadmium reduction pH 6.5	@ 30ppb presence	N/A	N/A	N/A	N/A	N/A	Ave 95%

### Scale Inhibition

Slow release scale inhibition available with Ultracarb Si® and BioTect Ultra Si® ceramic filter candles.

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.doulton.com](http://www.doulton.com)

† Internally generated test data.

‡ Under approval process.

\*Ceramics tested in HIS filter housing with a minimum of 5 log/100mls influent challenge.

<sup>^</sup>Tested as Hexachlorobenzene

