

Doulton Filters for Pressure systems



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

Sterasyt® microfilter plus carbon block core and lead removal media

Sterasyt® microfilter plus carbon block core and heavy metals with lead removal media

Filtration Rating (% particulate filtration efficiency)		Ultracarb®	BioTect Ultra®
Absolute (defined as >99.99%)		0.9 micron	0.9 micron
Nominal (defined as >99.9%)		0.5 to 0.8 micron	0.5 to 0.8 micron
Working Pressure (for pressure filter use)			
Minimum		10 psi	10 psi
Maximum		125 psi	125 psi
Working Parameters			
Working temperature range		5 – 30 (°C)	5 – 30 (°C)
Working pH range		5.5 – 9.5	5.5 – 9.5
Suitable for use in Gravity filters		N/A	N/A
Recommended change frequency		6 months	6 months
Flow Rate			
Unrestricted Flow at 3 Bar Pressure up to		3.3	3.3
Litres per minute		0.9	0.9
US gallons per minute		1.9	1.9
To achieve maximum performance		0.5	0.5
Litres per minute			
US gallons per minute			
Capacity			
Before replacement to guarantee performance		2300	2300
Litres		600	600
US gallons			
Quality Approval			
WRAS approved		YES	‡PENDING
Turbidity reduction		>98%	>98%
Pathogenic Organisms			
% Bacteria Removal*		E. Coli / Shigella / Typhoid /	
		Klebsiella Terrigena	
		Cryptosporidium	
		Giardia	
% Cyst Removal		>99.99%	>99.99%
		>99.99%	>99.99%
		>99.99%	>99.99%
Trace Organics Removal			
Range of Pesticides+			NO DATA
Insecticides		Lindane @ 0.1ppb presence	>85%
Herbicides		Atrazine @ 1.2ppb presence	>85%
Phenols		TCP @ 1.2ppb presence	>50%
Polyaromatic Hydrocarbons		PAHs @ 0.2ppb presence	>95%
Trihalomethanes		Chloroform @ 150ppb presence	>50%
Enhanced Organics Removal			
Pharmaceuticals+			
Lindane		≥2ppb presence	Ave 70%
Atrazine		≥9ppb presence	Ave 90%
Benzene		≥15ppb presence	Ave 87%
Inorganics Removal			
Free Chlorine Removal		2ppm presence to NSF Class 1 Std 42	† >96%
Monochloramine Reduction			
3ppm presence		N/A	N/A
2ppm presence		N/A	Ave 64%
Heavy Metals Removal			
Lead reduction pH6.5		@ 150ppb presence to NSF Std 53	97.3%
Lead reduction pH8.5		@ 150ppb presence to NSF Std 53	99.5%
Mercury reduction pH6.5		@ 6ppb presence	N/A
Cadmium reduction pH 6.5		@ 30ppb presence	N/A
Range of Metals pH 6.5+			N/A
Range of Metals pH 8.5+			N/A
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

† Internally generated test data. ‡ Under approval process. *Ceramics tested in HIS filter housing with a minimum of 5 log/100mls influent challenge.

^Tested as Hexachlorobenzene