

# Doulton®

## Carbosyl Ceramic Filter Cartridges

*Doulton® has been a leading name in drinking water filtration for over 150 years.*

*Doulton® ceramic elements are now available in a range of standard cartridge formats which bring the quality associated with the Doulton® name to the general filtration market.*

# Carbosyl

## Features

- Fits Industry standard 10" and 20" filter housings
- Filtration efficiency of > 99.9999% at 0.9 micron
- Filtration efficiency of > 99.9% at 0.5 to 0.9 micron
- Enhanced removal of pathogenic and heterotrophic bacteria
- Tested with live Cryptosporidium to a removal efficiency 100%
- Ideal for R O guard and post filtration
- Complimentary to UV systems
- High levels of Chlorine and organics removal



## Carbosyl Cartridges

**Doulton Carbosyl cartridges are available in both 2 and 2¾ inch diameters and consists of a high efficiency activated carbon impregnated microfilter.**

The carbosyl cartridge range is manufactured from Doulton Sterasyl® ceramic which has the highly consistent and controlled pore structure necessary to provide genuine sub micron filtration. In addition to fine particular matter, bacteria, cysts and turbidity are removed to a

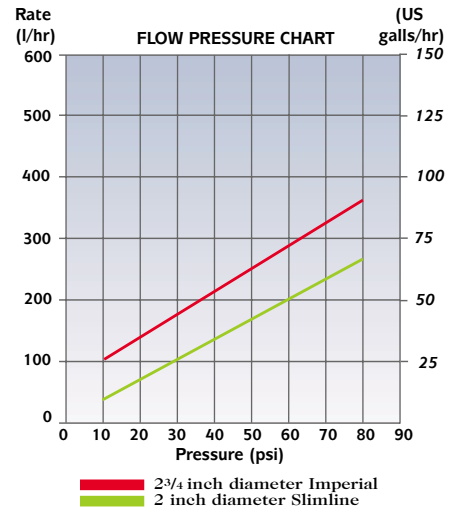
high level of efficiency. A unique manufacturing process allows a fine activated carbon coating to be impregnated throughout the ceramic structure which gives Carbosyl the dual properties of ceramic and activated carbon. The large surface area of the activated carbon coating provides high levels of chlorine and organic chemical reduction. The incorporation of silver within the cartridge inhibits the growth of bacteria and gives enhanced bactericidal and self sterilising properties.

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## Filtration Data Sheet

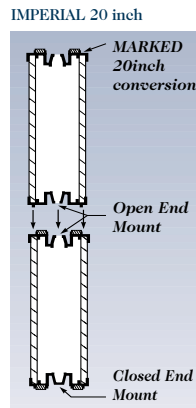
### Filtration Efficiency

Absolute filtration rating	(defined as > 99.99%)	0.9 micron
Nominal filtration rating	(defined as 99.9%)	0.5 - 0.8 micron
% Bacteria removal	E.coli	> 99.99%
	Vibrio Cholera	> 99.99%
	Shigella	> 99.999%
% Cyst removal	Salmonella Typhi	> 99.999%
	Klebsiella Terrigena	> 99.99%
	Cryptosporidium	> 99.999%
	Giardia	> 99.999%



### 20 Inch Filter Housings

Carbosyl Imperial (2 3/4") Filter cartridges can be supplied with a second adaptor cartridge to allow fitting in 20 inch filter housings. Due to slight variations in housing design, please state housing manufacturer when ordering.



### Chlorine Reduction (@ 2ppm challenge)

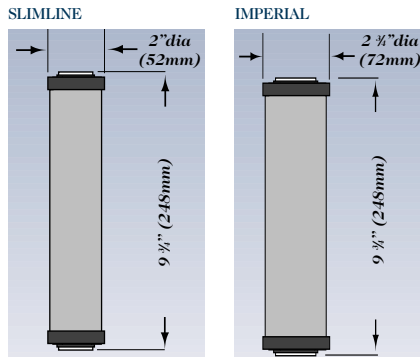
	Volume capacity @ >95% removal efficiency	
	Litres	US Gallons
Slimline 9 1/4 x 2" (tested @ 1.7 L/min flow rate)	4000	1000
Imperial 9 1/4 x 2 3/4" (tested @ 3.8 L/min flow rate)	4000	1000

### Trace Organics Removal

Insecticides	Lindane @ 0.1 ppb presence	> 80%
Herbicides	Atrazine @ 1.2 ppb presence	> 80%
Phenols	TCP @ 1.2 ppb presence	> 80%
Polyaromatic Hydrocarbons	PAH's @ 0.2 ppb presence	> 80%
Trihalomethanes	Chloroform @ 150 ppb presence	> 66%

(3000 litre challenge).

### Cartridge Dimensions



### Cartridge Shipping Specification

	Individual cartridge weight	Quantity per outer carton	Outer carton gross weight
Slimline 9 1/4 x 2"	0.2 kg	25	8 kg
Imperial 9 1/4 x 2 3/4"	0.4 kg	9	6 kg

Standard carton size 33 x 33 x 34 cm

### Product Specification

Working temperature range	5 - 38°C
Working pH range	5.5 - 9.5
Minimum working pressure	10 psi
Maximum working pressure	125 psi

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

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