

## Zeneca Pharma-Test results

Subject: Product Testing - Ceramic Filter Element

Method: Bacteriological/Microscopic

Test	Influent Count	Downstream Count	Percent Removal
Total Plate Count	2000 cfu/ml	<1	>99.99%
Total Coliform	1600 cfu/ml	<1	>99.99%
E.Coli	1000 cfu/ml	0	100.0%
Salmonella	1800 cfu/ml	<1	>99.99%
Staphylococcus A.	6000 cfu/ml	<1	>99.99%
Pseudomonas A.	2800 cfu/ml	<1	>99.98%
Streptococcus Faec.	2500 cfu/ml	<1	>99.99%
Amoebae (Protoz.)	168,000	80 units/ml	>99.9%
Lead (pb304h2 part.)	1700 ppm	0.013 ppm	>99.9%

(cfu/ml = colony forming units per millilitre)  
(ppm = parts per million)  
( $\mu\text{m}$  = micrometre or micron)

In addition to the above product testing, Turbidity test reduction results were as follows:

0.1 $\mu\text{m}$  = 99.86%

0.2 $\mu\text{m}$  = 99.89%

0.3 $\mu\text{m}$  = 99.96%

0.4 $\mu\text{m}$  = 99.99%

All results were conducted on water at 2 bar g pressure , 2 lts/min flow and an ambient temperature of 20 $^{\circ}\text{c}$ .

The product tested was submitted to a total flow of 3000 lts.

The product submitted for testing was a Ceramic Filter Element with a plastic threaded holder on one end. The plastic holder was marked FRESHWATER FILTER and MADE IN ENGLAND.

The total length of ceramic exposed was 240.00mm with a outside diameter of 50.00mm.

Tests commenced at 10.00 hrs. 30.12.97.

Doc.HESC(MMRG)#MF 97.

**THE FRESHWATER (FILTER) CO.**  
 57B LINDHURST DRIVE,  
 LEYTON, LONDON E10 6JB  
 TEL: 01-553-7485  
 PAGER: 01-900-0911 (810459)  
 SILVERLINE UK LIMITED  
 VAT No: 454 3585 34  
 PERFORMANCE TESTING

HEAVY METAL TESTS - REDOX ALLOY/GAC - PHASE 1

METAL	VOLUME INPUT ng ml <sup>-1</sup> (ppb)	VOLUME OUTPUT ng ml <sup>-1</sup> (ppb)	REDUCTION %
Arsenic (As)	70.00	2.00	97.14
Bismuth (Bi)	36.00	.50	98.61
Cadmium (Cd)	660.00	1.40	99.79
Cesium (Cs)	53.00	.50	99.09
Chromium (Cr)	57.00	1.10	98.07
Cobalt (Co)	50.00	.50	99.00
Copper (Cu)	500.00	4.00	99.20
Iron (Fe)	750.00	150.00	80.00
Lanthium (La)	52.00	.50	99.04
Lead (Pb)	69.00	.50	99.28
Manganese (Mn)	102.00	.50	99.51
Mercury (Hg)	96.00	.50	99.48
Molybdenum (Mo)	48.00	4.40	90.83
Nickel (Ni)	54.00	.50	99.07
Rubidium (Rb)	63.00	9.00	85.71
Silver (Ag)	2.00	6.00	-
Tin (Sn)	35.00	.50	98.89
Tellurium (Te)	67.00	.50	99.25
Uranium (U)	61.00	.50	99.18
Zinc (Zn)	190.00	58.00	88.16
Chloroform	18.00	.00	100.00
Trichloroethane	25.00	.00	100.00
Lindane	11.00	.00	100.00
	ng ml <sup>-1</sup> ppm	ng ml <sup>-1</sup> ppm	
Calcium (Ca)	42.60	51.50	-20.89
Magnesium (Mg)	4.40	5.10	-15.91

