

TEST REPORT

Send To: 13790

Ms. Tracy Bloor Fairey Industrial Ceramics Ltd. Unit 4 Lymedale Cross Industrial Estate Newcastle-Under-Lyme, Staffordshire ST5 9BT. United Kingdom

Facility: 13792

Fairey Industrial Ceramics Ltd. Unit 4 Lymedale Cross Industrial Estate Newcastle-Under-Lyme Staffordshire ST5 9BT United Kingdom

Result	PASS	Report Date 16-SEP-2015
Customer Name	Doulton Water Filters	100
Tested To	Standard 53 Cyst Live Cryptosporio	ium POU/POF
Description	HIP/Sterasyl Inline	1/4/C)132
Test Type	5 Year Testing	(1)30
Job Number	J-00170136	
Project Number	W014147	
Project Manager	le la rio Joles	

Thank you for having your product tested by NSF International.

Please contact your Project Manager if you have any questions or concerns pertaining to this report.

Report Authorization Juni & Le Vancelles

Date 16-SEP-2015

Kerri Levanseler - Director, Chemistry Laboratory

Standard 53 Cyst Live Cryptosporidium POU/POE: PASS

Manufacturer's Name: Fairey Industrial Ceramics Ltd.

Job ID: J-00170136

12-AUG-2015 Date of Job Creation: Date Sample Received: 12-AUG-2015 Date Test Completed: 11-SEP-2015

5 Year Testing Sample Type: HIP/Sterasyl Inline Product: DCC Number: HIP/Sterasyl Inline

Flushing Time: 10 minutes, let stand 24 hours, then flush 10 minutes

Maximum Rated Op. Pressure: 100 psi

On Cycle: 50/50

Percent Capacity: 200%

Physical Description of Sample: Plumbed in to Separate Tap without Reservoir

Rated Service Flow: 1.05 GPM

Test Description: STD 53 - Live Cyst Reduction - HIP/Sterasyl Inline - 5Y Wition, mi

Trade Designation/Model Number: HIP/Sterasyl Inline

Performance Standard: 53 - 2014

Cryptosporidium P/F: PASS

Pass/Fail Criteria (Cryptosporidium %R): 99.35 %

Overall Percent Reduction: >99.99 %

All of the effluent percent reduction a nple wints are greater than or equal to the pass/fail criteria.:

YES

Data Summary Table

Sample Point	Accumulated Volume (gal)		Dynamic Pressure (psi)	
1	Effluent 1	Effluent 2	Influent 1	Influent 2
Flush++	18	15		
8th Cycle	144	133	60	60
25%	218	202	61	61
50%	263	244	62	62
75%	299	283	62	62

Influent 1	Sample Point		Cryptos (Oocy	Flow Rate (gpm)			
8th Cycle 100000 100000 ND(1) 9 1.5 1.4 25% 100000 100000 ND(1) 2 0.96 1.1 50% 100000 100000 ND(1) ND(1) 0.61 0.57 75% 100000 100000 ND(1) ND(1) 0.32 0.31	10000	Influent 1	Influent 2	Effluent 1	Effluent 2	Effluent 1	Effluent 2
25% 100000 100000 ND(1) 2 0.95 1.1 50% 100000 100000 ND(1) ND(1) 0.61 0.57 75% 100000 100000 ND(1) ND(1) 0.32 0.31	Flush++			ND(1)	ND(1)	1.5	1.4
50% 100000 100000 ND(1) ND(1) 0.61 0.57 75% 100000 100000 ND(1) ND(1) 0.32 0.31	8th Cycle	100000	100000	ND(1)	9	1.5	1,4
75% 100000 100000 ND(1) ND(1) 0.32 0.31	25%	100000	100000	ND(1)	2	0.95	1.1
15 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	50%	100000	100000	ND(1)	ND(1)	0.61	0.57
Cryptosporidium Detection Limit: 1 Oocysts/L	75%	100000	100000	ND(1)	ND(1)	0.32	0.31
A LE LO A	ryptosporidi	um Detection Limi	t: 1 Oocysts/L			100	

Data Analysis Table

Sample Point	Inf. Average (oocysts/L)		Average (oocysts/L)		Eff. % Reduction (%)	
	Influent 1	Influent 2	Effluent 1	Effluent 2	Effluent 1	Effluent 2
8th Cycle	100000	100000	ND(1)	9	99.99	99.99
25%	100000	100000	ND(1)	6	99.99	99.99
50%	100000	100000	ND(1)	4	99.99	99.99
75%	100000	100000	ND(1)	3	99.99	99.99

Sample Point		teduction %)	Maximum (oocysts/L)	
	Influent 1	Influent 2	Effluent 1	Effluent 2
8th Cycle	99.99	99.99	ND(1)	9
25%	99.99	99.99	ND(1)	9
50%	99.99	99.99	ND(1)	.9
75%	99.99	99.99	ND(1)	9

Inf. Average: Influent Average Average: All Effluent Average

Eff. % Reduction: Effluent percent reduction at this sample point.

MWWW doubleon www Ave. % Reduction: Percent reduction calculated from all prior influents and effluents.

Maximum: Maximum Effluent

Water Characteristics

	1	Range			
Characteristic	Units	Minimum	Average	Maximum	
Hardness, Total	mg/LCaCO3	75	75	75	
Solids, Total Dissolved	mg/L	250	250	250	
Temperature	degrees C	21	21	21	
Turbidity	NTU	ND(0.1)	ND(0.1)	ND(0.1)	
рН		7.72		7.72	

All analyses performed at NSF International, 789 N. Dixboro Road, Ann Arbor MI 48105

Calculation Definitions

All calculations use values as presented in the Data Summary Table and rounding is performed only at the conclusion of the calculation.

Percent Reduction Calculations

Overall Percent Reduction:

Influent Average includes all influents. Effluent Average includes all effluents

% Reduction =

ident Average

ent Average

Joulison, will

Percent Reduction for Current Influent Point:

The influent value for the specific sample point. Effluent Average includes all effluents for the current sample point.

% Reduction =

Influent - Effluent Average Influent

Percent Reduction for Current Effluent Point:

The influent value for the specific sample point. Effluent includes the effluent value for the specific sample point.

Average Percent Reduction Calculations

Average Percent Reduction:

Influent Average includes all influents up to and including the current sample point.

Effluent Average includes all effluents up to and including the current sample point.

% Reduction =

Influent Average - Effluent Average Influent Average

* 100



Test Configuration