



Metals Reduction to IAPMO-QFT-1 200.8 Metals 2026

Testing Performed & Reported by IAPMO R&T Lab (NJ)

Model Name/No	British Berkefeld Ultra Sterasyl
Test	Metals Reduction to IAPMO-QFT-1 200.8 Metals Standard
Schedule	Accelerated Gravity; Low Pressure Flow (0.3LPM/0.08 USGPM) gravity sampling every 250 Litres (66USG)
Test Water	200-500 mg/L TDS, < 1 NTU, Hardness (90-110 mg/L) pH 7-8
Influent Challenge	Average; Arsenic III 47 µg/L, Chromium III 283 µg/L, Lead 157 µg/L, Selenium 107 µg/L & Mercury 5.2 µg/L
Volume Tested	1500 Litres (396.3 USG)
Flushing Volume	10 Litres (2.6 USG)

Test Description:

British Berkefeld Ultra Sterasyl Filter Element tested under low pressure at a flow rate of 0.3LPM (0.08 USGPM) sampling under gravity after every 250L (66 USG).

Results are summarised below.

Table 1

Capacity Tested (L)	(USG)	Arsenic III Influent (µg/L)	Arsenic III Effluent (µg/L)	% Arsenic III Reduction
start up	start up	49	7	85.69
250	66	44	1	96.85
500	132.1	41	<1	97.54
750	198.1	45	1	97.79
1000	264.2	55	<1	98.18
1250	330.2	45	1	97.78
1500	396.3	49	1	97.94
Average	Average	47	2	95.97

Capacity Tested (L)	(USG)	Chromium III Influent (µg/L)	Chromium III Effluent (µg/L)	% Chromium III Reduction
start up	start up	313	14	95.52
250	66	266	9	96.65
500	132.1	281	1	99.64
750	198.1	265	<1	99.62
1000	264.2	281	<1	99.64
1250	330.2	273	3	98.79
1500	396.3	299	6	98.09
Average	Average	283	5	98.28

Capacity Tested (L)	(USG)	Selenium Influent (µg/L)	Selenium Effluent (µg/L)	% Selenium Reduction
start up	start up	313	3	97.43
250	66	266	3	97.41
500	132.1	281	7	93.65
750	198.1	265	9	91.39
1000	264.2	281	11	89.51
1250	330.2	273	18	82.67
1500	396.3	299	10	90.38
Average	Average	283	9	91.78

Capacity Tested (L)	(USG)	Mercury Influent (µg/L)	Mercury Effluent (µg/L)	% Mercury Reduction
start up	start up	113	<0.5	91.38
250	66	112	<0.5	91.53
500	132.1	104	<0.5	91.23
750	198.1	108	<0.5	89.58
1000	264.2	102	<0.5	89.58
1250	330.2	105	<0.5	89.58
1500	396.3	104	<0.5	89.58
Average	Average	107	<0.5	90.35

Capacity Tested (L)	(USG)	Lead Influent (µg/L)	Lead Effluent (µg/L)	% Lead Reduction
start up	start up	156	<1	99.36
250	66	138	2	98.91
500	132.1	156	<1	99.36
750	198.1	162	<1	99.38
1000	264.2	131	<1	99.24
1250	330.2	175	<1	99.43
1500	396.3	180	<1	99.44
Average	Average	157	1	99.30



Doulton®



**Metals Reduction to
IAPMO-QFT-1 200.8
Metals 2026**

**Testing Performed & Reported
by IAPMO R&T Lab (NJ)**



Report Number: 26-118-Ultra Sterasyl Filter

Dates of Evaluation: 8/16/2026 to 8/26/2026

Test Result: **Passed**

Report Date: 09/04/2026

Customer Name: Julie Dolman

Fairey Industrial Ceramics LTD

Lymedale Cross Industrial Estate Newcastle-Under-Lyme 9BT
England

Sent To: Harsh Patel

IAPMO

18927 Hickory Creek Dr Ste 220
Mokena, IL 60448

Sample Trade Designation/Model Number: 7" Ultra Sterasyl Filter

Sample Received From: Lymedale Cross Industrial Estate Newcastle-Under-Lyme 9BT England

Date Sample(s) Received: 7/6/2026

Sample Condition When Received: In good condition

Primary Standard Tested to: IAPMO-QFT-1 200.8 Metals

Version of the Standard Used for Testing: 2026

Scope of Testing: The purpose of this test was to determine if the 7" Ultra Sterasyl Filter met the requirements of the IAPMO
- QFT-1 200.8 Metals Standard

Conditioning: Discard the first fill of the reservoir

Comments: The samples tested met the QFT-1-Heavy Metals (200.8 Metals) Standard

Project Manager: Sammy Kamau

Thank you for having your product tested by IAPMO R&T Lab, NJ.

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

Report Authorization

Jaime A. Young
Jaime A. Young
Sr Director – Water Systems

Date: 09/04/2026

All testing and sample preparation for this report was performed under the continuous, direct supervision of IAPMO R&T Lab, unless otherwise stated. The statement of compliance is based on the test results compared to the standard specifications without considering measurement uncertainty. The observations, test results and conclusions in this report apply only to the specific samples tested and are not indicative of the quality or performance of similar or identical products. Only the Client shown above is authorized to copy or distribute the report, and then only in its entirety. If presented with a copy of a Test Report without the IAPMO R&T Lab watermark background, contact IAPMO R&T Lab for verification. Any use of the IAPMO R&T Lab name for the sale or advertisement of the tested material, product or service is prohibited absent the advance written consent of IAPMO R&T Lab.



IAPMO-QFT-1 - 200.8 Metals Reduction

TEST REPORT
IAPMO R&T LAB (NJ)

1041 Glassboro Road Suite D-1
Williamstown, New Jersey 08094
Ph: 856.318.1130

Manufacturer's Name: Fairey Industrial Ceramics LTD

Product Type: Batch

Flow Rate: See specific procedure below

Conditioning Procedure: Discard the first fill of the reservoir

Cycle: N/A

Physical Description of Sample: Gravity Filters

Test Description: QFT 200.8 Metals

Performance Indicator Device: N/A

Trade Designation/Model Number: 7" Ultra Sterasyl Filter

Unit Volume: 100 mL

Performance Standard: QFT-1-Heavy Metals (200.8 Metals)

Pass/Fail Criteria (Maximum 200.8 Metals Concentration): Passed

Maximum effluent concentration (ug/L)

Arsenic – 10 Mercury – 2 Lead – 5 Selenium – 50 Chromium III – 100

Test Specific Procedure:

Testing one sample to 1500 L capacity, with sampling at the start under gravity and at defined cumulative volume intervals, with intermittent low flow under pressure in between the sampling points as follows:

1. Start the test with a normal challenge under gravity, take the influent and effluent start samples
2. Pressure Operation (Between Sampling Points) a. Install candles into pressure housings b. Operate at 0.3 L/min c. Continue operation until reaching the next target cumulative volume (250 L increments)
3. Sampling Procedure at Each Point a. Stop pressure flow at the required cumulative volume b. Collect influent and effluent samples under gravity
4. Continue with steps 2 and 3 until the end of the test sampling only at initial, 250L, 500L, 750L, 1000L, 1250L, 1500L

Water Characteristics

Accumulated Volume Effluent	pH 7.00-8.00	Alkalinity (90-110 mg/L)	Temp. (17-23 °C)	Hardness (90-110 mg/L)	Turbidity (<1 NTU)	TDS (200-500 mg/L)	Flow Rate Filter 1 (Lpm)	Flow Rate Filter 2 (Lpm)
Start	7.39	95	19.1	92	0.40	224	0.3	0.3
250 liters	7.37	95	18.9	92	0.40	222	0.3	0.3
500 liters	7.42	96	18.9	91	0.40	222	0.3	0.3
750 liters	7.40	98	19.1	94	0.40	222	0.3	0.3
1000 liters	7.43	94	19.1	97	0.40	222	0.3	0.3
1250 liters	7.45	95	18.7	93	0.40	224	0.3	0.3
1500 liters	7.47	99	18.9	92	0.41	222	0.3	0.3
Average	7.42	96	19.0	93	0.40	223	0.3	0.3

Arsenic III Filter #1 Data Summary Table

Accumulated Volume Effluent	Influent Arsenic III Concentration (ug/L)	Effluent Arsenic III Concentration (ug/L)	% Reduction	Passing Criteria
Start	49	7	85.69%	Passed
250 liters	44	1	96.85%	Passed
500 liters	41	<1	97.54%	Passed
750 liters	45	1	97.79%	Passed
1000 liters	55	<1	98.18%	Passed
1250 liters	45	1	97.78%	Passed
1500 liters	49	1	97.94%	Passed
Average	47	2	95.97%	---

Arsenic Reporting Limit: 1 ug/L



Chromium III Filter #1 Data Summary Table

Accumulated Volume Effluent	Influent Chromium III Concentration (µg/L)	Effluent Chromium III Concentration (µg/L)	% Reduction	Passing Criteria
Start	313	14	95.52%	Passed
250 liters	266	9	96.65%	Passed
500 liters	281	1	99.64%	Passed
750 liters	265	<1	99.62%	Passed
1000 liters	281	<1	99.64%	Passed
1250 liters	273	3	98.79%	Passed
1500 liters	299	6	98.09%	Passed
Average	283	5	98.28%	---

Chromium Reporting Limit: 1 µg/L

Lead Filter #1 Data Summary Table

Accumulated Volume Effluent	Influent Lead Concentration (µg/L)	Effluent Lead Concentration (µg/L)	% Reduction	Passing Criteria
Start	156	<1	99.36%	Passed
250 liters	138	2	98.91%	Passed
500 liters	156	<1	99.36%	Passed
750 liters	162	<1	99.38%	Passed
1000 liters	131	<1	99.24%	Passed
1250 liters	175	<1	99.43%	Passed
1500 liters	180	<1	99.44%	Passed
Average	157	1	99.30%	---

Lead Reporting Limit: 1 µg/L

Selenium Filter #1 Data Summary Table

Accumulated Volume Effluent	Influent Selenium Concentration (µg/L)	Effluent Selenium Concentration (µg/L)	% Reduction	Passing Criteria
Start	113	3	97.43%	Passed
250 liters	112	3	97.41%	Passed
500 liters	104	7	93.65%	Passed
750 liters	108	9	91.39%	Passed
1000 liters	102	11	89.51%	Passed
1250 liters	105	18	82.67%	Passed
1500 liters	104	10	90.38%	Passed
Average	107	9	91.78%	---

Selenium Reporting Limit: 1 µg/L

Mercury Filter #1 Data Summary Table

Accumulated Volume Effluent	Influent Mercury Concentration (µg/L)	Effluent Mercury Concentration (µg/L)	% Reduction	Passing Criteria
Start	5.8	<0.5	91.38%	Passed
250 liters	5.9	<0.5	91.53%	Passed
500 liters	5.7	<0.5	91.23%	Passed
750 liters	4.8	<0.5	89.58%	Passed
1000 liters	4.8	<0.5	89.58%	Passed
1250 liters	4.8	<0.5	89.58%	Passed
1500 liters	4.8	<0.5	89.58%	Passed
Average	5.2	0.5	90.35%	---

Mercury Reporting Limit: 0.5 µg/L

Filter Tested

1041 Glassboro Road Suite D-1
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