

Test Report

XMF24-0006747-01

Date: 2024-10-12

Client Name: JIN FANG TECHNOLOGY(HONG KONG) LIMITED

Client Address: UNIT 616.6/F, KAM TEEM IND BLDG,135 CONNAUGHT RD WEST, SAIWAN,HONG KONG

Sample Name: Stokk E1 Reverse Osmosis Water Filtration System

Sample Batch No.: /

Production Date: /

Manufacturer: /

Sample other information: Model No.:E1-G,E1-W,E1-L,E1-BK,E1-GN,E1-PL,E1-PK,E1-BN,E1-YL

Above information and sample(s) was/were submitted and certified by the client, SGS quoted the information with no responsibility as to the accuracy, adequacy and/or completeness.

Date of Sample Received: 2024-07-30

Testing Period: 2024-07-30 ~ 2024-10-12

Test Requested: Select test(s) as requested by the client.

Test Method(s): Please refer to next page(s).

Test Results(s): Please refer to next page(s).



SGS Approved Signatory

SGS-CSTC Standards Technical Services Co., Ltd.Xiamen Branch

Page 1 of 5

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Verification:
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Sample Description:

Sample No.	SGS Sample ID	Description
1	XMF24-0006747-0001	Stokk E1 Reverse Osmosis Water Filtration System

Test requested:

Selected test(s) as requested by applicant: Test the Removal rate of Free Chlorine, Turbidity, Total dissolved solids, Nitrate (as N), Fluoride, Pentavalent Arsenic, Cadmium, Chromium (hexavalent), Lead, Mercury, Copper, Barium, Selenium, Perfluorooctane sulfonate (PFOS), Perfluorooctanoic acid (PFOA), Chlorate, Total Coliforms at the start-up of the service life.

Test method(s):

Dissociate Chlorine Residue Challenge Testing: Refer to NSF/ANSI 42-2022: Drinking Water Treatment Units, Aesthetic Effects.

Total dissolved solids (TDS), Nitrate (as N), Fluoride, Arsenic (As), Cadmium (Cd), Chromium-VI, Lead (Pb), Mercury (Hg), Copper (Cu), Barium (Ba), Selenium (Se), Perfluorooctane sulfonate (PFOS), Perfluorooctanoic acid (PFOA) Challenge Testing: Refer to NSF/ANSI 58-2022 Reverse Osmosis Drinking Water Treatment Systems.

Total Coliforms, Chlorate Challenge Testing: Ministry of Health of the People's Republic of China Standards for Drinking Water Quality Sanitary Standard for Hygienic Safety and Function Evaluation on Treatment Devices of Drinking Water-Reverse Osmosis Device.

Pentavalent Arsenic, Cadmium, Copper, Mercury, Lead, Barium, Selenium: EPA Method 200.8:

Determination of Trace Elements in Waters and Wastes by Inductively Coupled Plasma-Mass Spectrometry. Free Chlorine: GB/T 5750.11-2023 Standard examination methods for drinking water – Part 11: Disinfectants parameters.

Total Coliform: GB/T 5750.12-2023 Standard examination methods for drinking water–Part 12: Microbiological parameters.

Turbidity, Total dissolved solids: GB/T 5750.4-2023 Standard examination methods for drinking water-Part 4: Organoleptic and physical indices.

Chromium (hexavalent): GB/T 5750.6-2023 Standard examination methods for drinking water-Part 6: Metal and metalloid indices.

Nitrate (as N), Fluoride: GB/T 5750.5-2023 Standard examination methods for drinking water – Part 5: Nonmetal parameters.

Chlorate: GB/T 5750.10-2023 Standard examination methods for drinking water-Part 10: Disinfection by-products parameters.

Perfluorooctane sulfonate (PFOS), Perfluorooctanoic acid (PFOA): US EPA 537: Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS).

Test strain(s):

Escherichia Coli ATCC 8739

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Page 2 of 5



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Test Result(s):

Table 1

Testing Point	Test item(s)	Unit(s)	Influent Challenge Concentration	Product Water Concentration	*Reduction	Reduction Requirement (NSF/ANSI 42)
Start-up	Free Chlorine	mg/L	2.01	<0.02	>99.00%	≥50%

Table 2

Testing Point	Test item(s)	Unit(s)	Influent Challenge Concentration	Product Water Concentration	*Reduction	Requirement	
						Maximum Product Water Concentration (NSF 58)	**Reduction Limit (Customers requirements, calculated according to the client's method that refers to NSF/ANSI 58)
Start-up	Turbidity	NTU	11	<0.5	>95.45%	0.5	≥95.45%
Start-up	Total dissolved solids	mg/L	259	<10	>96.13%	187 (Minimum Percentage Reduction Requirement ≥75.00%)	≥75.00%
Start-up	Nitrate (as N)	mg/L	31.60	<0.01	>99.96%	10	≥62.96%
Start-up	Fluoride	mg/L	5.29	<0.01	>99.81%	1.5	≥81.25%
Start-up	Pentavalent Arsenic	mg/L	0.322	<0.005	>98.44%	0.010	≥96.66%
Start-up	Cadmium	mg/L	0.0508	<0.0001	>99.80%	0.005	≥83.33%
Start-up	Chromium (hexavalent)	mg/L	0.491	<0.004	>99.18%	0.1	≥66.66%
Start-up	Lead	mg/L	0.109	<0.001	>99.08%	0.005	≥96.66%
Start-up	Mercury	mg/L	0.0575	<0.0001	>99.82%	0.002	≥66.66%
Start-up	Copper	mg/L	0.963	<0.001	>99.89%	1.3	≥56.66%
Start-up	Barium	mg/L	0.954	<0.001	>99.89%	2.0	≥80.00%
Start-up	Selenium	mg/L	0.115	<0.005	>95.65%	0.05	≥50.00%
Start-up	Perfluorooctane sulfonate (PFOS)	mg/L	0.00753	<0.00001	>99.86%	0.00002	≥98.66%
Start-up	Perfluorooctanoic acid (PFOA)	mg/L	0.00289	<0.00001	>99.65%		
Start-up	#Perchlorate	mg/L	0.0952	<0.002	>97.89%	0.006	≥94.00%

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Page 3 of 5



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Table 3

Testing Point	Test item(s)	Unit(s)	Influent Challenge Concentration	Product Water Concentration	*Reduction
Start-up	Total Coliforms	CFU/100 mL	8.8×10^6	<1	>99.9999%

Remark:

1. *Reduction (%) = (The test result of Influent Challenge Concentration - The test result of Product Water Concentration) / The test result of Influent Challenge Concentration $\times 100\%$
2. **According to the request of the customer to reflect the reduction limit, the reduction limit is calculated based on the influent challenge concentration requirements and the limit value of the product water concentration in NSF/ANSI 58 standard. The calculation formula is that Reduction (%) = (target value of influent challenge concentration - limit value of product water concentration) / target value of influent challenge concentration $\times 100\%$
3. #Test items were carried out by SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch laboratory.

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Page 4 of 5



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Sample Photo:



SGS authenticate the photo on original report only

Attention:

Chinese shall prevail in this report.

Unless otherwise stated the results shown in this report refer only to the items tested.

Within the territory of the People's Republic of China, this test report shall only be used for scientific research, technical research and development, teaching, and internal quality control.

*** End***

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Page 5 of 5



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