PURA

PURA ONE SHOWER FILTER

Test Report

Chlorine reduction and material safety

This report shows the results of two laboratory tests on the filter used in the PURA One. One test measured how much chlorine the filter removes. The other checked the materials it is made from.

Both tests were carried out by independent laboratories, SGS and TÜV SÜD. The results are set out here as the labs reported them, with the original report numbers.

Chlorine reduction
SGS-CSTC, Ningbo
Report NBF20-009993-02

Material safety
TÜV SÜD, Guangzhou
Report 64.165.23.04517.01E

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Report summary

Both tests were carried out by third-party laboratories.

Chlorine reduction

SGS · NINGBO, CHINA · 2020–21

KEY RESULTS

- The filter removed at least 97% of free chlorine from tap water at the start of testing and after 7,500 litres.
- After 15,000 litres it still removed 96.55%.
- After 22,500 litres removal was 85.29%. After 30,000 litres it was 44.12%.
- The test water contained about 0.3 mg/L of free chlorine, which is typical of treated tap water.

Material safety

TÜV SÜD · GUANGZHOU, CHINA · 2023

KEY RESULTS

- 32 parts from the filter range were tested against the EU RoHS directive.
- All parts passed for heavy metals (lead, cadmium, mercury and hexavalent chromium), flame retardants (PBB and PBDE) and phthalates.
- One gold-coloured metal part contains lead. This is allowed under a RoHS exemption for copper alloys.

Each lab states that its results apply only to the items it tested. Report numbers and dates are listed on the last page.

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Chlorine reduction

Chlorine is added to tap water to keep it safe. This test measured how much of it the filter removes, from new through 30,000 litres of use.

FACILITY
SGS-CSTC Standards Technical Services Co., Ltd., Ningbo Branch

LOCATION
Ningbo, China

TEST PERIOD
16 November 2020 – 1 February 2021

REPORT
NBF20-009993-02, released 1 February 2021

SAMPLE
Shower filter element (SGS ID NBF20-009993.002)

Objective

To measure the percentage of free residual chlorine the filter removes, from new through 30,000 litres of water.

Procedure

Tap water containing about 0.3 mg/L of free residual chlorine was passed through the filter element. Free chlorine was measured in the water going in and the water coming out at the start, then after 7,500, 15,000, 22,500 and 30,000 litres.

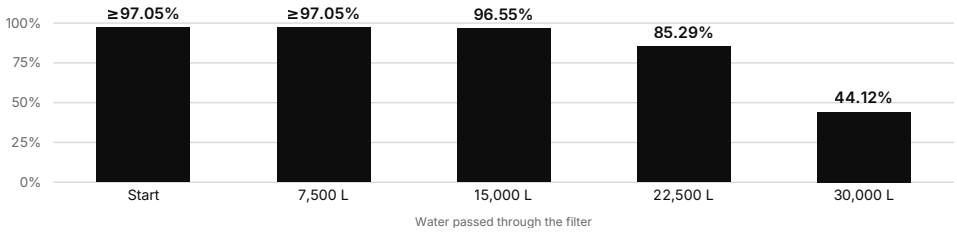
Method: GB/T 5750.11-2006 (the Chinese national standard for testing disinfectant in drinking water), following Annex 4A of the Ministry of Health's Drinking Water Hygiene Standards (2001).

Results

Removal was at least 97.05% at the start and after 7,500 litres, and 96.55% after 15,000 litres. It fell to 85.29% after 22,500 litres and 44.12% after 30,000 litres.

Water through filter	Flow rate (L/min)	Chlorine in (mg/L)	Chlorine out (mg/L)	Removed
Start	8.0	0.34	<0.01	**≥97.05%**
7,500 L	5.2	0.34	<0.01	**≥97.05%**
15,000 L	3.8	0.29	0.01	**96.55%**
22,500 L	3.6	0.34	0.05	**85.29%**
30,000 L	3.4	0.34	0.19	**44.12%**

Removal rate = (chlorine in − chlorine out) ÷ chlorine in × 100. Where chlorine out measured below 0.01 mg/L, removal is reported as "at least". Flow rate and concentrations are as reported by the lab.



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Material safety

RoHS sets limits on harmful substances in products sold in the EU. This test checked the parts of the filter against those limits.

FACILITY
TÜV SÜD Certification and Testing (China) Co., Ltd., Guangzhou Branch

LOCATION
Guangzhou, China

TEST PERIOD
25 September – 13 October 2023

REPORT
64.165.23.04517.01E, dated 17 October 2023

SAMPLES
Faucet filter and shower filter, models FT01–FT05 and M01–M05

Objective

To verify that the filter's materials meet the EU RoHS directive 2011/65/EU and its amendment (EU) 2015/863.

Procedure

32 parts were tested. Heavy metals and flame retardants were first screened by X-ray fluorescence (XRF), and phthalates by gas chromatography–mass spectrometry (GC-MS).

Where a screening result was inconclusive or over the limit, the part was retested by chemical analysis (ICP-OES and UV-Vis spectrophotometry). Reporting limits: cadmium 2 mg/kg, hexavalent chromium 10 mg/kg, lead and mercury 10 mg/kg, phthalates 100 mg/kg.

Results

All three tests passed.

Test	Result
Heavy metals: lead, cadmium, mercury, hexavalent chromium	PASS
Flame retardants: PBBs and PBDEs	PASS
Phthalates: DEHP, BBP, DBP, DIBP	PASS

One part (sample 004, a gold-coloured metal part) contains lead at 3.01×10^4 mg/kg. RoHS exempts copper alloys containing up to 4% lead by weight (Annex III, item 6(c)). The full figures are on the following pages.

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Parts tested and screening results

No.	Part	Cd	Cr	Hg	Pb	Br	DEHP	BBP	DBP	DIBP
001	White plastic shell	BL	BL	BL	BL	BL	BL	BL	BL	BL
002	Silvery metal nut	BL	**Inc.(a)**	BL	BL	NA	NA	NA	NA	NA
003	Black soft plastic gasket	BL	BL	BL	BL	BL	BL	BL	BL	BL
004	Golden metal part	BL	BL	BL	**OL(a)**	NA	NA	NA	NA	NA
005	White plastic shell with grey printing	BL	BL	BL	BL	BL	BL	BL	BL	BL
006	Black soft plastic seal ring	BL	BL	BL	BL	BL	BL	BL	BL	BL
007	Silvery metal net	BL	**Inc.(a)**	BL	BL	NA	NA	NA	NA	NA
008	White plastic grain	BL	BL	BL	BL	BL	BL	BL	BL	BL
009	White plastic nut	BL	BL	BL	BL	BL	BL	BL	BL	BL
010	White plastic sheet	BL	BL	BL	BL	BL	BL	BL	BL	BL
011	Translucent soft plastic tube	BL	BL	BL	BL	BL	BL	BL	BL	BL
012	White plastic splice	BL	BL	BL	BL	BL	BL	BL	BL	BL
013	Silvery metal tape	BL	**Inc.(a)**	BL	BL	NA	NA	NA	NA	NA
014	Silvery metal shell	BL	**Inc.(a)**	BL	BL	NA	NA	NA	NA	NA
015	Silvery metal screw	BL	**Inc.(a)**	BL	BL	NA	NA	NA	NA	NA
016	Silvery surface plated metal	BL	**Inc.(a)**	BL	BL	NA	NA	NA	NA	NA
017	White plastic substrate	BL	**Inc.(a)**	BL	BL	BL	BL	BL	BL	BL
018	Translucent soft plastic gasket	BL	BL	BL	BL	BL	BL	BL	BL	BL
019	White plastic shell	BL	BL	BL	BL	BL	BL	BL	BL	BL
020	Silvery metal spring	BL	**Inc.(a)**	BL	BL	NA	NA	NA	NA	NA
021	White plastic part	BL	BL	BL	BL	BL	BL	BL	BL	BL
022	White plastic part	BL	BL	BL	BL	BL	BL	BL	BL	BL
023	Silvery metal pin	BL	**Inc.(a)**	BL	BL	NA	NA	NA	NA	NA
024	Silvery metal sheet	BL	**Inc.(a)**	BL	BL	NA	NA	NA	NA	NA
025	White plastic button	BL	BL	BL	BL	BL	BL	BL	BL	BL
026	White plastic shell with silvery printing	BL	BL	BL	BL	BL	BL	BL	BL	BL
027	White plastic shell	BL	BL	BL	BL	BL	BL	BL	BL	BL
028	White soft plastic net	BL	BL	BL	BL	BL	BL	BL	BL	BL
029	White fabric cord with beige glue	BL	BL	BL	BL	BL	**Inc.(a)**	**Inc.(a)**	**Inc.(a)**	**Inc.(a)**
030	White plastic part	BL	BL	BL	BL	BL	**Inc.(a)**	**Inc.(a)**	**Inc.(a)**	**Inc.(a)**
031	White fabric	BL	BL	BL	BL	BL	**Inc.(a)**	**Inc.(a)**	**Inc.(a)**	**Inc.(a)**
032	Black activated carbon	BL	BL	BL	BL	BL	BL	BL	BL	BL

BL = below limit. OL = over limit. Inc. = inconclusive. NA = not applicable. (a) = a further confirmation test was carried out; see the next page. Cd cadmium, Cr chromium, Hg mercury, Pb lead, Br bromine (flame retardants). DEHP, BBP, DBP and DIBP are phthalates.

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Confirmation results

Heavy metals (chemical analysis)

Sample	Part	Hexavalent chromium	Lead (mg/kg)
002	Silvery metal nut	Negative	—
004	**Golden metal part**	**—**	**3.01×10^4 (exempt, see note)**
007	Silvery metal net	Negative	—
013	Silvery metal tape	Negative	—
014	Silvery metal shell	Negative	—
015	Silvery metal screw	Negative	—
016	Silvery surface plated metal	Negative	—
017	White plastic substrate	<10 mg/kg	—
020	Silvery metal spring	Negative	—
023	Silvery metal pin	Negative	—
024	Silvery metal sheet	Negative	—

RoHS limits: cadmium 100 mg/kg, lead 1,000 mg/kg, mercury 1,000 mg/kg, hexavalent chromium 1,000 mg/kg (or "Negative" on metal surfaces: below 0.10 µg/cm²). "Negative" means the test was below this value. Note: lead in sample 004 is covered by exemption 6(c), "copper alloy containing up to 4% lead by weight", under Directive 2011/65/EU Annex III.

Phthalates (GC-MS)

Samples 029 + 030 + 031 (combined)	Result (mg/kg)	RoHS limit (mg/kg)
Di-(2-ethylhexyl) phthalate (DEHP)	<100	1,000
Butyl benzyl phthalate (BBP)	<100	1,000
Dibutyl phthalate (DBP)	207	1,000
Diisobutyl phthalate (DIBP)	<100	1,000

Reporting limit 100 mg/kg. Chemical testing was carried out at the TÜV SÜD Shenzhen Branch laboratory and reviewed at the Guangzhou Branch.

XRF screening limits (mg/kg)

Material	Cd	Pb	Hg	Br	Cr
Polymer: below limit if under	70 − 3σ	700 − 3σ	700 − 3σ	300 − 3σ	700 − 3σ
Metal: below limit if under	70 − 3σ	700 − 3σ	700 − 3σ	—	700 − 3σ
Composite material: below limit if under	50 − 3σ	500 − 3σ	500 − 3σ	250 − 3σ	500 − 3σ

Phthalate screening: below limit under 600 mg/kg, inconclusive at 600 mg/kg or above.

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About these tests

Test	Laboratory	Report no.	Date
Chlorine reduction	SGS-CSTC Standards Technical Services Co., Ltd., Ningbo Branch	NBF20-009993-02	1 Feb 2021
Material safety (RoHS)	TÜV SÜD Certification and Testing (China) Co., Ltd., Guangzhou Branch	64.165.23.04517.01E	17 Oct 2023

The original reports can be checked with the issuing lab using the report numbers above.

Good to know

Free residual chlorine
The chlorine still in the water after treatment. It is what you smell in a swimming pool.

mg/L
Milligrams per litre, the unit used to measure chlorine in water.

Water through the filter
The total volume of water passed through the filter during the test.

RoHS
An EU directive that limits certain hazardous substances in products.

Limits of the results

Each laboratory states that its results relate only to the items it tested. TÜV SÜD notes that its report is a single examination and does not apply to other products in regular production.

RoHS is a materials standard. It is not a water-quality or drinking-water certification.

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