



Shenzhen Filterwell Technology Co.,Ltd

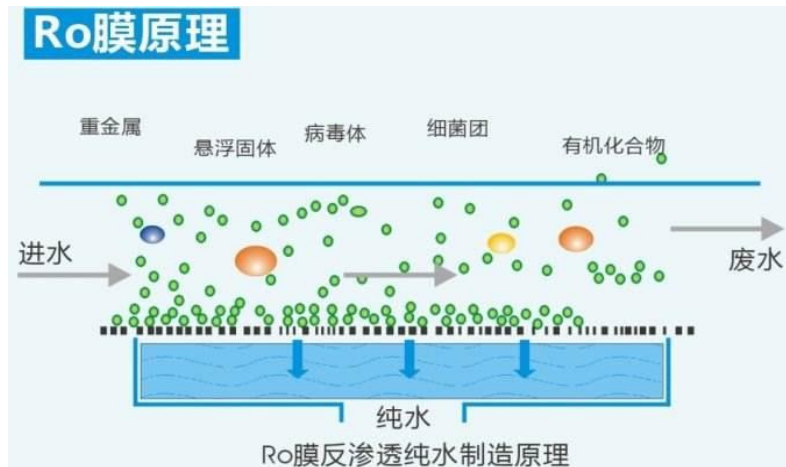
深圳市净益科技有限公司

Products list

- Reverse osmosis -RO membrane
- Ultra Filtration –UF hollow Fiber membrane
- Filter Media& Multi Function cartridge
- Portable & Personal water filter for Outdoor &emergency
- RV /Car water filter / Camping water filter
- Other outdoor &Portable water filter products

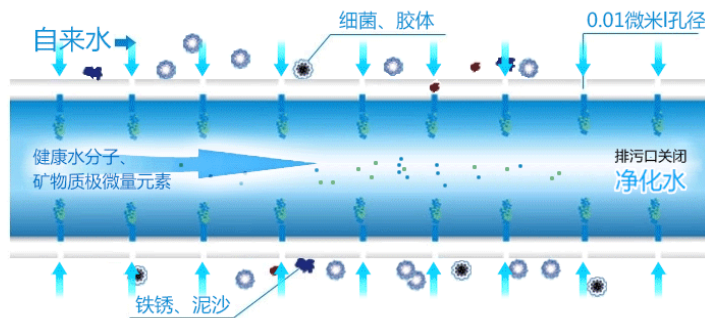
Reverse Osmosis Introduction

RO is the abbreviation of Reverse Osmosis in English, Flow direction of water usually from low concentration to high concentration. Once the water is pressurized, it will flow from high concentration to low concentration, which is the so-called reverse osmosis principle . The pore size of RO reverse osmosis membrane is as small as nanometers ($1 \text{ nanometer} = 10^{-9} \text{ meters}$). Under certain pressure, water molecules can pass through the RO membrane, while the source water contains inorganic salts, heavy metal ions, organic matter, colloids, bacteria, and viruses . Impurities cannot pass through the RO membrane, so that the permeable pure water and the impenetrable concentrated water are strictly distinguished .



Ultra Filtration Hollow Fiber membrane

Hollow fiber ultrafiltration membranes are widely used in the field of terminal water purification due to its advantages such as high packing density, large effective membrane area, high pure water flux, simple operation and easy cleaning . There are about 6 billion 0.01 micron pores on the wall of each meter-long ultrafiltration membrane filament tube. Its pore size only allows water molecules, beneficial minerals and trace elements in the water to pass through, and the smallest bacteria have a volume above 0.02 microns . Therefore, bacteria, as well as colloids, rust, suspended solids, sediments, and macromolecular organics that are much larger than bacteria can be intercepted by the ultrafiltration membrane, thereby realizing the purification process. .



KDF-CUZN Filter Media

KDF is a kind of copper alloy with high purity, which can adsorb heavy metals in water and reduce hard water ions such as calcium and magnesium. The fiber morphology has a specific surface area of more than 20 times, through the reaction of heavy metals and acid ions in water, the activation degree of water is improved. The principle of KDF in water treatment is to use redox reaction. KDF exchanges electrons with oxidizing and harmful substances in water, which turns many harmful substances into harmless substances .



KDF合金纤维丝

专利产品，表面积比颗粒型接触面积大20倍，有效提升吸收效果。与活性炭组合使用可抑制细菌繁殖并延长使用寿命。
降低水中的余氯、重金属、二价铁、硫化氢、杀菌、软化水降低水垢(硬度)



Nano Activated Carbon Fiber-Filter Media

Nano activated carbon fiber have adsorption capacity to inorganic matter, dye, organic matter and heavy metal. Its aqueous solution is 5-6 times higher than that of granular activated carbon. For example, the adsorption rate of *Escherichia coli* can reach 94-99%. It also has high adsorption capacity for low concentration ppm level pollutants.

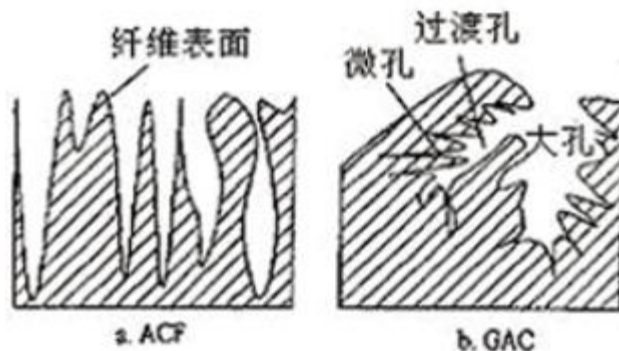


图1 ACF 和GAC的孔结构模型



Water Filter Straw-1

- Unique Clip for hook
- Multi Function Silicone Rubber Flexible Adaptor suit for Most of PET bottle and Squeeze Pouch
- Faucet mount & Gravity Filtration available
- SGS Bacteria Filter passed , Products Material Meet NSF/EPA Standard .
- 3-5 Filter grade for selection. customized design available



Water Filter Straw-2

- Activated carbon fiber (for decolorization, deodorization, removal of organic matter, residual chlorine, and improvement of taste)
- The adsorption of heavy metal ions in water is reduced by KDF CUZN Filter Media
- UF ultrafiltration filter element (hollow fiber filter element, high filtration precision, filtration aperture of $0.01\ \mu\text{m}$, to ensure the safety of drinking water quality)
- The inlet sand head can carry out coarse filtration of sediment, algae and other visible solid suspended solids, and protect the filter material of the later stage.



Water Filter Straw-3

- Activated carbon fiber (for decolorization, deodorization, removal of organic matter, residual chlorine, and improvement of taste)
- UF ultrafiltration filter element (hollow fiber filter element, high filtration precision, filtration aperture of 0.01 μ m, to ensure the safety of drinking water quality)
- The inlet sand head can carry out coarse filtration of sediment, algae and other visible solid suspended solids, and protect the filter material of further stage.

Triple Filtration Water Filter Straw



Stage 3: Antibacterial Carbon Fiber

Removes chlorine and organic matter.
Eliminates peculiar odor and color,
improve water taste.

Stage 2: 0.01 Micron Hollow Fiber UF Membrane

Removes 99.9999% of bacteria, such as salmonella, cholera, and E.coli; removes 99.9999% of protozoa, such as giardia and cryptosporidium.

Stage 1: Pre-Filter

Filters out visible solid suspensions such as sediment and algae.



Hydration Flask & Filter straw



Blue 500/700ML available .Other color available for bulk Quantity

Hydration Flask & Filter straw



Pouch: Anti-Bacteria TPU

Bite Nut Material :TPE

Flask Cap Material :TPE

Color choice :



Other Water Bottle Compatible

DIY Inside Filter Straw



Other Outdoor Sport Bottle Available for DIY

RV water filter 1

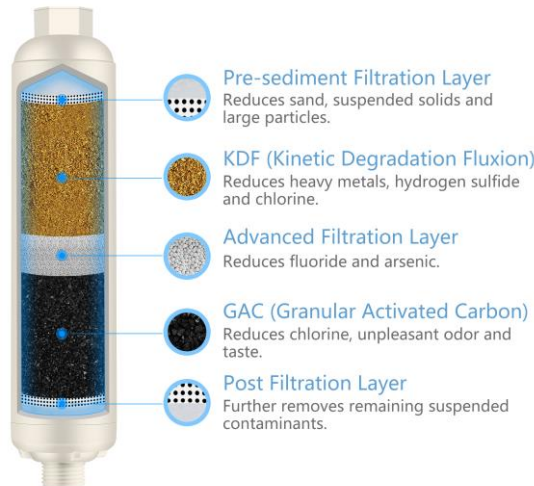
Coconut shell Activated carbon

portable and lightweight, faucet & car pump & car wash pump drive is universal and adaptable, suitable for car & RV camping filtered water for 4-8 people cooking and cleaning

- Reduces bad taste, odor, chlorine, and sediment. 20 micron sediment filter: Removes particles greater than 20 microns.

- The replaceable filter element can filter up to 3 month (gallons); It produces a flow rate of 3-5 liters/min; garden hose US NH 3/4' connector , copper nipple connector as option .

Multi-stage Filtration



Customized design As below (1/2" In& out available):

RV water filter Plus (Group)



Chlorine



pesticides



Heavy Metals



Micro-
Organism



Odor



Color



VOC, THM's

RV water filter Plus (Group)

Customized design :

1:CTO -1 micron Activated Carbon block

2: Granular Activated Carbon +Kdf 55

3 Granular Activated Carbon +Kdf 55+Fluoride& Chlorine remove

4:Ultra Filtration-Hollow fiber membrane + Granular Activated Carbon

5: Ultra Filtration-Hollow fiber membrane &KDF55 & Granular Activated Carbon

6:CTO -1 micron Activated Carbon block & KDF55

MULTIPLE USAGES



For RVs

Clean and tasty drinking water quenches your thirst, keeps you hydrated and makes you feel energetic even during long time travel in RVs.



For Boats

You don't have to buy bottled water, just need to drink great-tasting water from your tank with this inline water filter. Carry less and enjoy more.



For Gardening

Improves the health of your plants and soil significantly by filtering out the chlorine, chloramine and unwanted chemicals in your water.



For Car Washing

Efficient and easy to reduce water spot etching from your car's paint with clean fresh water from our RV water filter, no more worry about that.

Portable gravity/Car wash pump/Faucet Filter

- Multi-stage filtration melt blown PP filter element + hollow fiber pressure less ultrafiltration + carbon fiber taste improvement,
- portable and lightweight, gravity drive / faucet / car wash pump drive is versatile and adaptable, suitable for camping, backpacking, hiking and survival;
- Filtered Water for 1-4 people (cooking and cleaning).replaceable filter element can filter up to 6000 gallons; the flow rate is 1.0 -3.0 liters/min;
- complies with all EPA/NSF requirements for removing 99.9999% of bacteria and 99.9% of protein, including Giardia, Cryptosporidium, E. coli, Salmonella, Cholera
- Including hollow fiber filters, hoses, adapters (Can add water barrel through plate joint as gravity filter)



Manual Pump water filter-RO

Features introduction:

1. High filtration precision, nanometer level. Directly produce pure water, can filter heavy metals, salt, etc., TDS or conductivity can be tested.
2. Comply with all EPA/NSF about removing 99.9999% of bacteria and 99.9% of protein, including Giardia, Cryptosporidium, E. coli, Salmonella, Cholera
3. Engineering plastics and stainless steel pipe structure is strong. Ergonomic design, more labor-saving.
4. Three-stage filtration design can produce purified water with different precision levels according to actual needs.
5. Inlet and outlet of pagoda mouth. The pipeline connection is firm, not easy to slip off
6. The product is small in size, light in weight (500g), and the total flux in the life is 8000L. Versatile and adaptable, suitable for camping, backpacking, hiking and survival;



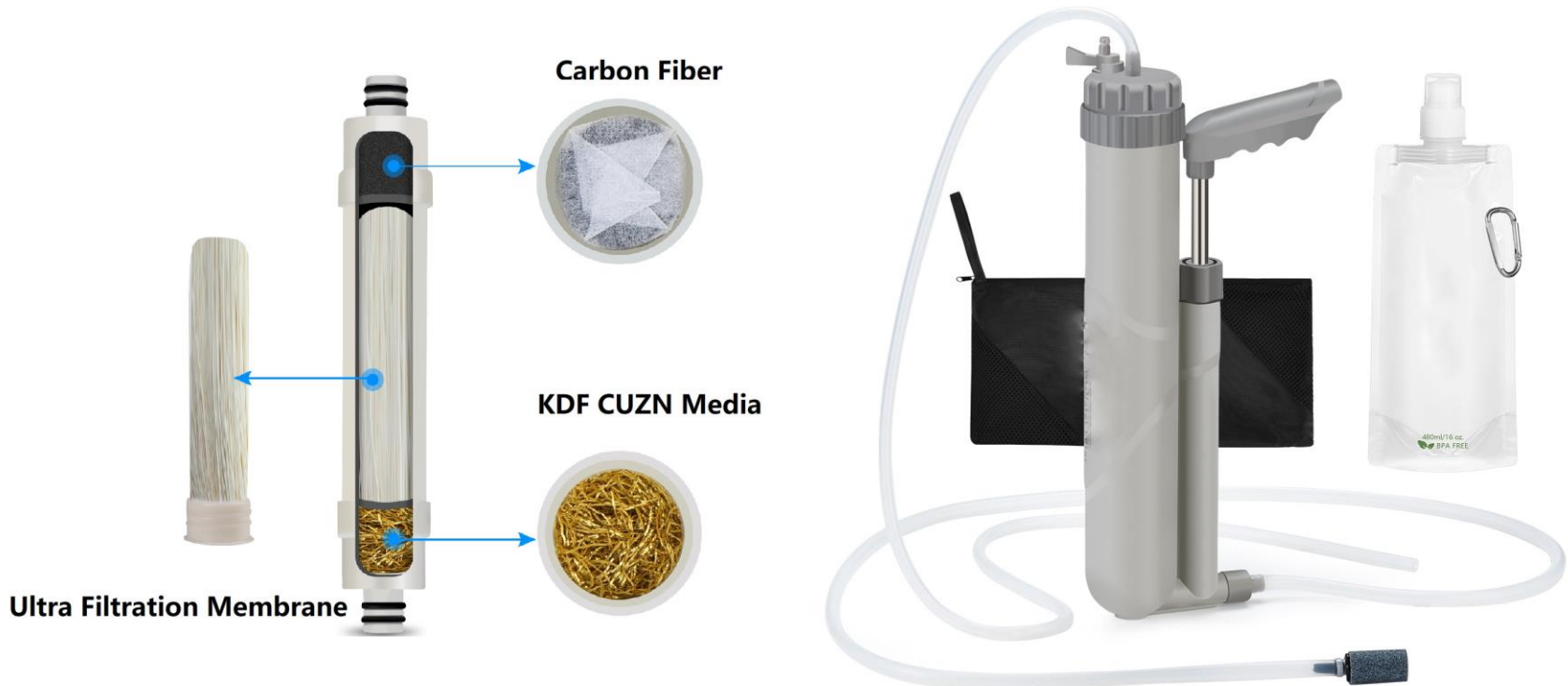
Manual Pump water filter-RO



Manual water filter- UF Combination

Features introduction:

1. High filtration accuracy, 0.01 micron level (filter viruses and microorganisms). Carbon fiber & KDF composite can significantly improve the taste and absorb heavy metals. Black carbon ink test.
2. Engineering plastics and stainless steel pipe structure are firm . Ergonomic design, more labor-saving.
3. Three-stage filtration design can produce purified water with Micron precision levels for drinking.
4. Inlet and outlet of pagoda mouth . The pipeline connection is firm, not easy to slip off
5. The product is small in size and light in weight (370g), with a total flux of 8000L life spam .



Manual water filter- CTO Combination

Features introduction:

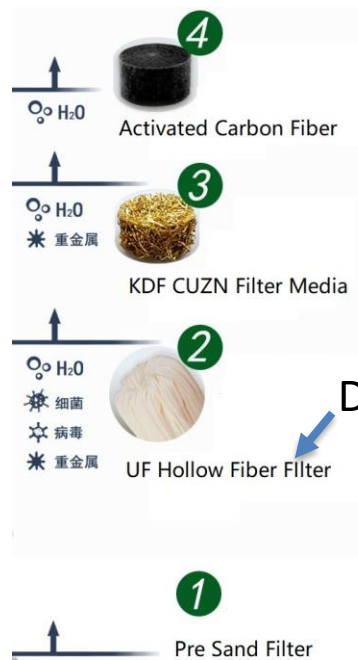
1. High filtration accuracy, 1 micron level (filter viruses and microorganisms). Carbon block filter & Carbon fiber & KDF composite can significantly improve the taste and absorb heavy metals. Black carbon ink test.
2. Engineering plastics and stainless steel pipe structure are firm . Ergonomic design, more labor-saving.
3. Three-stage filtration design can produce purified water with Micron precision levels for drinking.
4. Inlet and outlet of pagoda mouth . The pipeline connection is firm, not easy to slip off
5. The product is small in size and light in weight (370g), with a total flux of 8000L life spam .



Manual water filter-Double UF

Features introduction:

1. High filtration accuracy, 0.01 micron level (filter viruses and microorganisms). Carbon fiber & KDF composite can significantly improve the taste and absorb heavy metals. Black carbon ink test.
2. Engineering plastics and stainless steel pipe structure are firm . Ergonomic design, more labor-saving.
3. Three-stage filtration design can produce purified water with Micron precision levels for drinking.
4. Inlet and outlet of pagoda mouth . The pipeline connection is firm, not easy to slip off
5. The product is small in size and light in weight (370g), with a total flux of 8000L life spam .



Qualification /certification- SGS third party testing

SGS

Test Report

Report No: ASH19-051810-02

Date: Sep 30 2019

Sample Picture:



*** End ***

SGS

Test Report

Report No: ASH19-051810-02

Date: Sep 30 2019

Sample Description:

Specimen No.	SGS Sample ID	Description
1	ASH19-051810.001	outdoor water filter

TEST REQUESTED:

Selected test(s) as requested by applicant: Total coliforms removal rate at startup of operating life

TEST ORGANISM

E.coli 8099

TEST METHOD(S):

Total coliforms removal rate: Refer to Ministry of Health of the People's Republic of China Sanitary Standard for Hygienic Safety and Function Evaluation on Treatment Devices of Drinking Water – General Devices & GB/T 5750.12 - 2006 Standard examination methods for drinking water- Microbiological parameters

TEST RESULT(S):

Test item(s)	Unit(s)	Test method(s)	Test result(s)			Removal rate(s) * (%)		Requirements (Sanitary Standard for Hygienic Safety and Function Evaluation on Treatment Devices of Drinking Water - General Devices)	Single determination
			Influent spiked water	Effluent filtrated water					
				Unit 1	Unit 2	Unit 1	Unit 2		
Total coliforms	CFU/100mL	GB/T 5750.12-2006	1.6×10 ³	< 1	< 1	> 99.9	> 99.9	Not Detected	Conform

Remark: *Removal rate (%) = (Influent spiked water test result - Effluent filtrated water test result) / Influent spiked water test result × 100%.

SGS Total coliforms for water filter straw

SGS-CSTC Standards Technical Services (Shanghai) Co.,Ltd.
Page 2 of 3



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Attention: To check the document of testing, please refer to report & certificate, please contact us at telephone: (86-755) 8307 1883, 3rd Building, No. 889, Yishan Road, Shanghai, China 200233 1 400-691-1488 1 (86-21) 6140 2547 www.sgsgroup.com.cn
中国·上海·宜山路889号3号楼 邮编:200233 1 400-691-1488 1 (86-21) 6140 2547 e sgs.china@sgs.com

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Qualification /certification- SGS third party testing

SGS

Test Report

Sample photo:

NBF21-002885-02

Date: 16 Apr 2021



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SGS

Test Report

NBF21-002885-02

Date: 16 Apr 2021

Sample Description:

Specimen No.	SGS Sample ID	Description
1	NBF21-002885.001	Portable UF hand pump water filter

Test Requested:

Selected test(s) as requested by applicant:
Removal rate of Total coliforms at startup.

Test Strain(s):

Escherichia coli CICC 10389

Test Method:

Removal rate of Total coliforms: Refer to 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-General Devices & GB/T 5750.12-2006 Standard examination methods for drinking water-Microbiological parameters

Test Result(s):

Test item(s)	Unit(s)	Test method(s)	Test result(s)			*Removal rate(s)1 (%)	*Removal rate(s)2 (%)
			Influent spiked water	Effluent filtrated water1	Effluent filtrated water2		
Total coliforms	CFU/100mL	GB/T 5750.12-2006	1.7×10^4	0	0	99.9967	99.9989

Remark:

1.*Removal rate (%) = (test result of Influent spiked water- test result of Effluent filtrated water)/ test result of Influent spiked water×100%
2.The flow rate is 1.0L/min

SGS-CSTC Standards Technical Services Co., Ltd. Ningbo Branch
Page 2 of 3



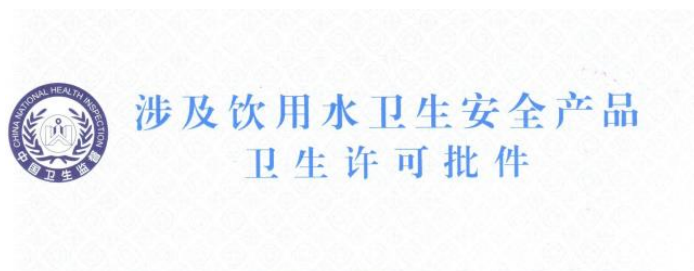
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SGS Total coliforms for portable UF water filter

Qualification /certification- China National Health inspection



Ultra Filtration Filter

样品受理编号: JKS20040055

第2页/共3页

样品名称 Filter well 牌超滤膜滤芯 接样日期 2020-04-28
送检单位 深圳市净益科技有限公司 样品数量 6支
生产单位 [REDACTED] 样品性状 蓝色壳体+内部白色拉丝状
生产日期或批号 20200410 检验项目 卫生安全浸泡试验
型号及规格 直径Φ45mm*长度110mm 检验完成日期 2020-05-08

表1 卫生安全性检验结果

测定项目	单位	测定结果			卫生规范要求	判定
		空白	样品1	样品2		
色	度	<5	<5	<5	增加量≤5度	合格
浑浊度	NTU	<0.10	<0.10	<0.10	增加量≤0.2 NTU	合格
臭和味	/	无异臭、异味	无异臭、异味	无异臭、异味	无异臭和异味	合格
肉眼可见物	/	无	无	无	不得有	合格
pH	/	6.76	6.72	6.72	改变量≤0.5	合格
溶解性总固体	mg/L	5	10	9	增加量≤10 mg/L	合格
耗氧量	mg/L	0.30	0.51	0.52	增加量≤1 mg/L	合格
砷	mg/L	<0.0001	<0.0001	<0.0001	增加量≤0.001 mg/L	合格
镉	mg/L	<0.0001	<0.0001	<0.0001	增加量≤0.0005 mg/L	合格
铬(六价)	mg/L	<0.004	<0.004	<0.004	增加量≤0.005 mg/L	合格
铝	mg/L	<0.0001	<0.0001	<0.0001	增加量≤0.02 mg/L	合格
铅	mg/L	<0.0001	<0.0001	<0.0001	增加量≤0.001 mg/L	合格
汞	mg/L	<0.0002	<0.0002	<0.0002	增加量≤0.0002 mg/L	合格
铁	mg/L	0.0022	<0.0001	<0.0001	增加量≤0.06 mg/L	合格
锰	mg/L	0.0001	<0.0001	<0.0001	增加量≤0.02 mg/L	合格
铜	mg/L	<0.0001	0.0003	0.0003	增加量≤0.2 mg/L	合格
锌	mg/L	<0.0001	0.0012	0.0012	增加量≤0.2 mg/L	合格
银	mg/L	<0.0001	<0.0001	<0.0001	增加量≤0.005 mg/L	合格
钡	mg/L	<0.0001	0.0006	0.0006	增加量≤0.05 mg/L	合格
锑	mg/L	<0.0001	<0.0001	<0.0001	增加量≤0.0005 mg/L	合格
锡	mg/L	<0.0001	<0.0001	<0.0001	增加量≤0.002 mg/L	合格

以下空白

Qualification /certification- China National Health inspection



涉及饮用水卫生安全产品 卫生许可批件

深圳市涉及饮用水卫生安全产品许可批件附件

产品说明：产品为水处理材料（滤芯），执行标准：GB/T 30306-2013

规格：直径 Φ (40-200) mm \times 长度 (150-1016) mm

主要成分或部件：ABS 中心管、聚酰胺膜片、流道布、PP 网络

使用范围：用于家用净水器的过滤滤芯

注意事项：

1, 适用温度: 0-40℃

2, 使用前应冲洗 5-10min

3, 需定期更换

产品名称	反渗透滤膜
产品类别	水处理材料
产品规格或型号	直径 Φ (40-200) mm \times 长度 (150-1016) mm
申请单位	
申请单位地址	深圳市坪山新区坑梓街道龙田社区堂展工业区 D3 栋 3 楼
实际生产企业	
实际生产企业地址	深圳市坪山新区坑梓街道龙田社区堂展工业区 D3 栋 3 楼
审批结论	经审核，该产品符合《生活饮用水卫生监督管理办法》的有关规定，现予批准。
批准文号	粤卫水字(2016)第 s9227 号
批准日期	2016 年 10 月 14 日
批件有效期	截至 2020 年 10 月 13 日
备注	<p>1. 如果存在多个生产企业的，应分别注明每个实际生产企业的名称和地址。</p> <p>2. 本批件只对与所载明内容（包括名称、类别、规格、申请单位、企业、附件内容等）一致的产品有效，且必须在本批件注明的实际生产企业生产。</p> <p>3. 批准时仅对其所申报材料对应产品的卫生安全性进行了审核，未对其所宣传的功能和其他质量问题进行评价。</p> <p>4. 需要备注的其他内容。</p>

请于批件有效期届满前 30 日之前提出延续申请。

深圳市卫生和计划生育委员会
2016 年 10 月 14 日

RO批件&检测报告

Qualification /certification- Spare Parts and Filter Media



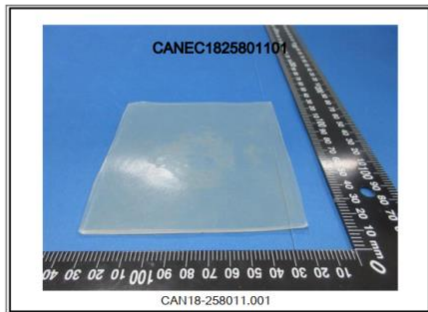
Test Report

No. CANEC1825801101

Date: 18 Dec 2018

Page 4 of 4

Sample photo:



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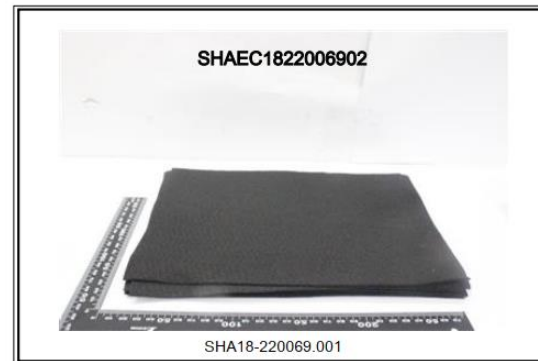
测试报告

No. SHAEC1822006902

日期: 2018年09月30日

第6页,共6页

样品照片:



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*** 报告完 ***

Report :SGS FDA ROHS

Filter Design and structure patents



PATENTED PRODUCTS: water filter straw , Portable RO /UF water filter/Rv water Filter

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Phone&wechat Whatapp : 0086 13760415747 Mr wade lee

Email &skype : lb636482@outlook.com

Website : www.Filter-well.com

