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Portable Water Filter Straw

1. Designed for hiking, camping, fieldwork and emergency water needs, the S01 is a compact filter straw for personal use. Its ABS body weighs approximately 90 g, making it easy to carry and pack. Users can drink through the filter, set it up for gravity-fed filtration, or attach a compatible bottle and squeeze water through it. All three methods work without batteries or an external power source, making the S01 a practical option for traveling light or collecting water where electricity is unavailable.

2. The S01 combines an ultra-low-pressure hollow-fiber ultrafiltration membrane with activated carbon fiber and fine polypropylene (PP) nonwoven filter media. The filtration rating is 0.01-0.1 microns. The polysulfone (PS) membrane retains particles, while the activated carbon fiber helps improve taste. This low-pressure design supports direct drinking, gravity filtration and bottle-squeeze filtration. The stated flow rate is 500 mL/min. Actual flow depends on source water quality, how the filter is used and the condition of the filter media. For gravity-fed filtration, the height of the water above the filter and the tubing arrangement also affect flow.

3. Threaded connections at both ends allow the S01 to fit compatible bottles with 28 mm necks. It can also connect to water bags, so users can pair the filter with containers they already carry. For squeeze filtration, screw a compatible bottle onto the inlet and gently squeeze the bottle to collect filtered water. Measuring 170 x 40 mm, the compact body fits easily into a backpack or emergency kit and keeps the load light.

4. The flushing function helps clear debris that builds up during use. Follow the product instructions for routine cleaning and maintenance. The membrane is supplied dry, making it convenient to store before first use or keep with emergency supplies. Once wetted, clean and store it as directed, and keep the raw-water inlet separate from the filtered-water outlet. The stated total filtration capacity is 2,000 L; actual capacity varies with source water quality and use. If the flow slows noticeably, check the filter and flow path.

5. The S01 is intended for freshwater that meets its inlet-water requirements, including suitable Class I-III surface water. It is not designed to desalinate seawater. Do not use it directly with water of unknown origin or suspected chemical contamination. Microbial removal performance and treated-water quality must be assessed against the conditions and results in the test report for the specific model.

S01 product view (left) and outdoor photograph (right)

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Technical Specifications

Model:	S01
Flow Rate	500 mL/min
Total Filtration Capacity	2,000 L (varies with water quality)
▲ Filtration Media:	Ultrafiltration: ultra-low-pressure hollow-fiber membrane Activated carbon fiber Fine PP nonwoven filter media
Filtration Rating:	0.01-0.1 microns
★Water Quality Standard:	The quality of the effluent water complies with GB5749-2022 "Standards for Drinking Water Quality"
Water Source:	Unpolluted freshwater, such as Class I–III surface water
Filtration Method:	Direct drinking, gravity filtration or bottle-squeeze filtration
Removal Performance:	Removes 99.9% of large particles, bacteria and parasites
Inlet Water pH:	6–9
Operating Temperature:	0–40°C
Material:	Food-grade ABS and silicone (customizable). Water-contact components meet drinking-water safety requirements.
Color:	Olive green (customizable)
Dimensions:	170 mm × 40 mm
Weight:	90 g

Note: A water-quality test report from a third-party laboratory with MA and CNAS credentials is available for the parameter marked ★.

Applicable Standards

Treated Water Quality	GB5749-2022 "Standards for Drinking Water Quality"
Filtration Components	FDA (U.S. Food and Drug Administration) certification CE 1907/2006 REACH (screening test for 236 substances of very high concern) Chinese sanitary approval for domestically manufactured drinking-water products

Product Images

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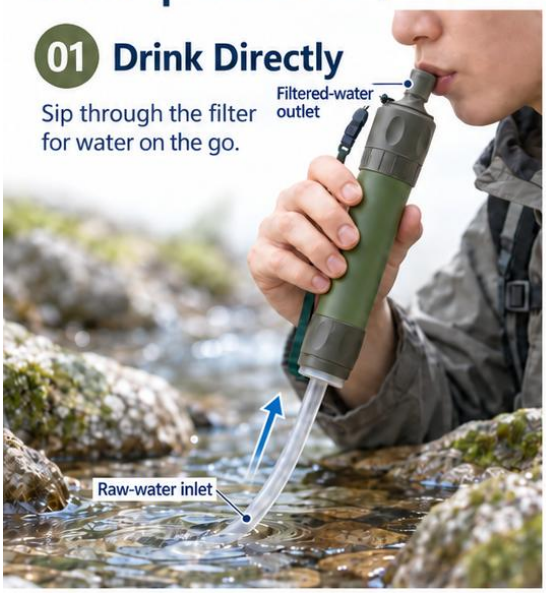
S01 | Three Ways to Filter

01 Drink Directly

Sip through the filter for water on the go.



02 Gravity Filtration

Connect a water bag and let gravity do the work.

03 Squeeze Filtration

Attach bottle · Squeeze gently · Collect filtered water

Use illustrated for reference. Containers and accessories shown are not necessarily included.