

Why do I need a water filter?

A gushing mountain brook usually looks extremely refreshing. However, its water quality often leaves a lot to be desired. Even clear brooks and lakes can be loaded with pathogens. The general rule is: if you take water from nature and don't want to depend on expensive mineral water from PET bottles, you should never set off without water filters. Pathogens are divided into 3 microorganisms:



Protozoa (1 – 15 Mikron*)

e.g. amoebae, giardia, lamblia, cryptosporidia. Protozoa are animal single-celled organisms and get into drinking water via animal and human feces. Protozoa are highly resistant to chemical disinfectants, but thanks to their size can be easily filtered.



Bacteria (0,2 – 5 Mikron*)

e.g. E-coli, salmonella, cholera. Bacteria are single-cell organisms that propagate rapidly in water. Not all bacteria are a health-risk. If they are mixed together with human and animal feces in drinking water, however, it becomes dangerous. A good water filter filters bacteria from water with no difficulties.

Viruses (~0,02 – 0,2 Mikron*)

e.g. Hepatitis A, Norwalk virus, Polio virus. Viruses can only propagate in living cells since they do not possess their own metabolism. Their minimum size makes it difficult to filter them from water mechanically, and so filters with a pore size of < 0.02 microns are needed. However, viruses are sensitive to heat and chemical disinfectants. Usually bound to particles in cloudy water, they can also be removed to a large extent with filter pores up to 0.2 microns.



* 1 Mikron = 0,001 mm



Katadyn filter categories

Endurance



- For expeditions, base camps and long journeys
- Safety even under extreme conditions
- Ideal for 1 – 4 people
- Even for extremely cloudy water
- Very high filter capacity and service life

Backcountry



- For camping, trekking and hiking
- Ideal for all outdoor activities
- Ideal for 1 - 2 people
- For clear and slightly cloudy water
- From mountain shelters to campsites

Ultralight



- For shorter journeys, weekend and day trips
- Light filter for personal use
- Ideal for 1 person
- For clear water
- Outdoors or in hotels

Product comparison

Product	Type	Protozoa	Bacteria	Viruses	Ceramic	Fiberglass	Charcoal	Filter time	Weight
Katadyn Pocket	Microfilter	Yes	Yes	No	Yes	No	No	1 l/min	550 g
Katadyn Combi	Microfilter	Yes	Yes	No	Yes	No	Yes	1 l/min	580 g
Katadyn Vario	Microfilter	Yes	Yes	No	Prefilter	Yes	Yes	2 l/min	425 g
Katadyn Hiker	Microfilter	Yes	Yes	No	No	Yes	Yes	1 l/min	310 g
Katadyn Mini	Microfilter	Yes	Yes	No	Yes	No	No	0,5 l/min	210 g
Katadyn MyBottle	Purifier	Yes	Yes	Yes	No	Yes	Yes	0,2 l/min	260 g
Micropur Classic	Micropur	No	Yes	No	No	No	No	2 h	
Micropur Forte	Micropur	Yes	Yes	Yes	No	No	No	30 min/2 h	

Microfilter, Purifier or Micropur?

The decision initially depends on the type of water source. Is the water cloudy or clear? Do viruses as well as bacteria have to be eliminated? Viruses get into water mainly via humans and appear primarily near populated areas, where wastewater gets into the drinking water. Is the water loaded with chemicals? How much drinking water is needed and how rapidly?

Microfilters work perfectly...:

- ... for trips in remote areas
- ... for preparing suspect tap water in hotels or public wells
- ... as a purifier, when water is treated with Micropur Forte after being pumped



Purifiers are the best choice...:

- ... for trips in heavily populated areas and developing countries with insufficient hygiene conditions

Advantages of microfilters and purifiers:

- + Simple and easy to use
- + Disinfect the water immediately - no waiting
- + Continuous performance under various conditions
- + Remove dirt particles and sediment from the water
- + Microfilters and purifiers with charcoal reduce chemicals in the water and improve the taste

Disadvantages of microfilters and purifiers:

- Size and weight
- Higher initial outlay
- Maintenance

Advantages of Micropur:

- + Low initial outlay
- + Lightweight and small
- + Easy to use with exact dosage
- + Micropur Forte is effective against viruses and protozoa



Disadvantages of Micropur:

- Wait times between 30 minutes and 2 hours
- Only for use with clear water; cloudy water must be filtered first
- Dirt and sediment cannot be removed from the water
- A slight taste of chlorine can remain in the water

Ceramic or Fiberglass?

Ceramic microfilters have a micro-porous layer impregnated with silver, which prevents bacteria growth during prolonged periods when not in use. The pore size of the ceramic is 0.2 microns (bacteria are between 0.2 and 5 microns).

Advantages of ceramic microfilters:

- + Very high filter capacity and service life
- + Also suitable for cloudy water, since it's washable
- + Filter capacity is measurable
- + Silver in the ceramic prevents bacteria growth in the filter element

Disadvantages of ceramic microfilters:

- Higher initial outlay
- Heavier
- Greater pumping effort

Fiberglass microfilters form a depth filter within two supporting layers with a pore size of 0.3 microns. Here the bacteria and protozoa are trapped mechanically.

Advantages of fiberglass microfilters:

- + Low pumping effort with high filter performance
- + Lower initial outlay
- + Lightweight

Disadvantages of fiberglass microfilters:

- Cannot be cleaned
- Low filter capacity



KATADYN
MAKING WATER DRINKING WATER

More and more outdoor enthusiasts and travelers are also thinking about products for preparing drinking water when preparing for their journey. Katadyn offers you the right product for every need – whether you're a globetrotter, a vacation traveler, a camper or a sailor.

Many user groups all over the world, like international relief organizations, army special units and thousands of outdoor enthusiasts, rely on Katadyn's unique products. No other water system offers higher quality and better performance.

The Swiss company Katadyn is the world's number one in individual water purification systems and products. Since 1928, Katadyn has been developing water filters, disinfectants and mobile demineralization equipment for the trekking and marine sectors. Several international relief organizations and army special units use Katadyn products for survival assistance and rescue. The company is also diversified with two other outdoor market brands: "Trek'n Eat", number one in outdoor and expedition food in Europe, is a high-quality and freeze-dried special food. In addition, the Swedish brand Optimus, which manufactures outdoor stoves and accessories, has belonged to the Katadyn Group since the end of 2007.

Katadyn has its headquarters in Wallisellen-Zurich and branch offices in Germany, France, Sweden, the United States and Singapore.

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