

Comparison of PUREEASY Soldier and Katadyn mini



		PUREEASY Soldier	Katadyn mini
		Lightest, smallest and highest filtration fineness ceramic filter	(Before Pureeasy Soldier go into market) The smallest and lightest ceramic filter
Retailed price		RMB 296.00	RMB 1100.00
Weight		90g	210g
Filtration fineness		0.1 μ m	0.2 μ m
Principle of filtration		Pump filter, dual ceramic membrane filtration	Pump filter, ceramic depth filtration
Filtration media		dual ceramic membrane + nano-metal clusters media	Porous ceramic
Size		13.8 \times 5.7 \times 2.8cm	18 x 8 x 5 cm
Output		300ml/min	500ml/min
Capacity		2000L	7000L
Removes particles		More than 0.1 μ m,	More than 0.2 μ m
Remove matter		Algae, worms, sediments and reduces radioactive particles	algae, spores, sediments and reduces radio active particles.
Microbial hazards	Bacteria	99.9999% remove bacteria in water like Escherichia coli, Staphylococcus aureus, Salmonella typhi, Vibrio cholerae, Legionella pneumophila*	Reduction of bacteria (99.9999%) and protozoan
	Giardia, Cryptosporidium	>99.99%	99.99%
	Virus	Combined with particle more than 0.1 μ m. Growth and reproduction of microorganisms includes viruses can be inhibited by nano-metal clusters media*	Combined with particle more than 0.2 μ m
Remove	Pb ²⁺	High removing efficient**	-

harmful	Cd ²⁺	High removing efficient* *	-
heavy	Cr ⁶⁺	High removing efficient**	-
metal ions	AS ³⁺	Efficiently removed**	-
Improve odor and tastes		Yes (improved by nano-metal clusters media)	-
Nitrite		Effectively removed**	-

-: without effects or without obvious effects

*: Common viruses have very tiny size, smaller than 100nm, theoretically not be removed with a 0.1µm filter. But virus without cell, can't individually exist, usually combined with particles, bacteria or other matter. Therefore, Pureeasy outdoor water filters remove the viruses combined with particles, bacteria or other materials.

In addition, the nano-metal clusters with different oxidation/reduction potential formed in the media surface and porous, present a distinctive quality of redox. When water flow through the media, growth and reproduction of microorganisms includes viruses can be inhibited because of fluctuation of oxidation/reduction potential (ORP) during the purifying of water

** : Removed by nano-metal clusters media