

MIZU 360

with

NANO-FILTER TECHNOLOGY

A Global Reusable Hydration System

Technical Information

What is a Mizu Nano-Filter?

NANO TECHNOLOGY

All Mizu Nano-Filters use high performance, revolutionary industry leading Nano Technology. They work by a combination of mechanical entrapment and electro kinetic absorption, incorporating naturally occurring minerals refined in a laboratory setting, where each gram of resulting fiber has a surface area exceeding 500 square meters. That means that contaminants are either trapped in micro pores or attracted by the charge of the filter and therefor stopped from entering your body.

FILTER MEDIA

The Mizu filter media is produced by the highly reputable Ahlstrom company which has been around since 1851 and is based in Finland. The Ahlstrom product name is 'Disruptor' and was designed and tested by NASA, NGO's and the Military. Here is a great video to learn about the Ahlstrom media used in Mizu Filters.

<https://youtu.be/bfcerQVxqSU>

FLOW RATES

Mizu Nano-Filters deliver high flow rates (no long wait for the water to filter) and easy pressure (no need for a squeeze bottle) which means you can keep your filtered water icy cold in stainless steel. The nano fibers create an electrostatic charge field procuring a strong attraction for sub-micron contaminants while retaining high flow rates.

FILTERS FOR EVERYDAY & ADVENTURE

Mizu offers two Nano-Filters with two levels of filtration. The 360LE is our 12 pleat Everyday Nano-Filter and The 360LA is our multi layered pleat Adventure Nano-Filter. More pleats make the 360LA more reliable with lower quality water and the 360LE will have a higher flow rate for use with municipal water. Simply unscrew and switch out the straw adapter and filters based on your daily needs.

What contaminants are filtered?

Mizu Filters exceed USA EPA microbiological filter guidelines.

99.9% of PROTOZOA/ CYSTS/ BACTERIA/ VIRUS/ HEAVY METALS/ CHLORINE/ FLUORIDE

SOME REMOVAL

- | | |
|-------------------|---------------------|
| - Arsenic | - Bromate |
| - Bromine (White) | - Chromium VI |
| - Ferrous Iron | - Manganese Nitrate |
| - Lead 6.5 pH | - Mercury |
| - Soluble Silica | - NDMA |
| - Trihalomethanes | - Sulfate |
| - Chloramine | - Geosmin |
| - VOC | |

SIGNIFICANT REMOVAL

- | | |
|---------------------------------------|-------------------|
| - Virus (Polio, Rotovirus, Norovirus) | - Iodine (Carbon) |
| - Bacteria (E. Coli, Legionella) | - Lead 8.5 pH |
| - Cysts (Giardia, Cryptosporidium) | - Orthophosphate |
| - Humic Acid | - PCBs |
| - Bromine (Carbon) | - BPA |
| - Chlorine (Carbon) | - Penicillin G |
| | - Flumenquine |
| | - DNA.RNA |
| | - Polysaccharides |



360 NANO-FILTER TECHNOLOGY

What is a Mizu Nano-Filter?

2 MONTHS OR 40 GALLONS

There are many variables when determining the lifespan of the Nano-Filters such as the quality or turbidity of the water and the amount of water run through the filter. Given normal usage, we recommend replacing the filter every 2 months or every 40 gallons.

REPLACEMENTS?

Replacement filters can be ordered through wholesale or online sales channels. Replacement filters are packaged for retail and can be sold at once or through an on-line subscription service.

WATER QUALITY

Ultimately, the filter will stop allowing water to flow through once it is at the end of its life. And its important to point out that the water quality does not diminish toward the end of its life.

INDEPENDENT TESTING

Mizu Filters are independently tested by BIOLOGICAL CONSULTING SERVICES (BCS) of North Florida, Inc. an independent laboratory. BCS is accredited by the State of Florida Department of Health and is registered with the USA EPA Laboratory Compendium. BCS is also audited and regulated by the Department of Health to ensure compliance with national ISO 17025 standards.

About the contaminants

PROTOZOA

Most Protozoa are classified as human parasites. Protozoa live in the cells and tissues of living creatures. Protozoans are responsible for many waterborne human diseases such as Giardia and Cryptosporidium. Protozoa can target the central nervous system and cause diarrhea. This diverse group of unicellular eukaryotic organisms typically range in size from 10-52 micrometers.

BACTERIA

Bacteria constitute prokaryotic microorganisms, they are a few micrometers in length. Pathogenic bacteria are a major cause of human death and diseases such as Typhoid, Cholera and diarrhea. Mizu filters significantly remove E. Coli, Legionella, Pseudomonas and more from your drinking water.

CHLORINE

Chlorination reduces bacteria levels but does not effectively remove Virus, Cysts and Worms. Chlorine combines with organic matter to form toxic by-products called Trihalomethanes. Long term exposure may lead to bladder, colon and rectal cancers. The Environmental Research Foundation cites studies linking chlorinated water with higher miscarriage and birth defects.

CYSTS

A Cyst is a cluster of cells that have grouped together to form a sac ranging in size from 6-10 microns. Cysts are distinctly abnormal in appearance and behavior and may contain fluids and semi-solid materials. The Giardia cyst enters human hosts through drinking water and hatches in the intestine. Untreated Giardia could be fatal to children and people with lowered immune systems.

VIRUS

A virus is a small infectious agent that replicates inside living cells of other organisms. They are much smaller than bacteria with a diameter between 20 and 300 nanometres. Mizu filters significantly remove viruses such as Polio, Norovirus and Rotavirus from your drinking water.

HEAVY METALS

Mizu Nano filters have been shown to remove certain species of colloidal metals and hazardous compounds such as PCB's and trace pharmaceuticals including BPH a human hormone inhibitor. Our filters are also capable of significantly removing BPA, Lead 6.5 and 8.5pH and Arsenic V 6.5 pH.

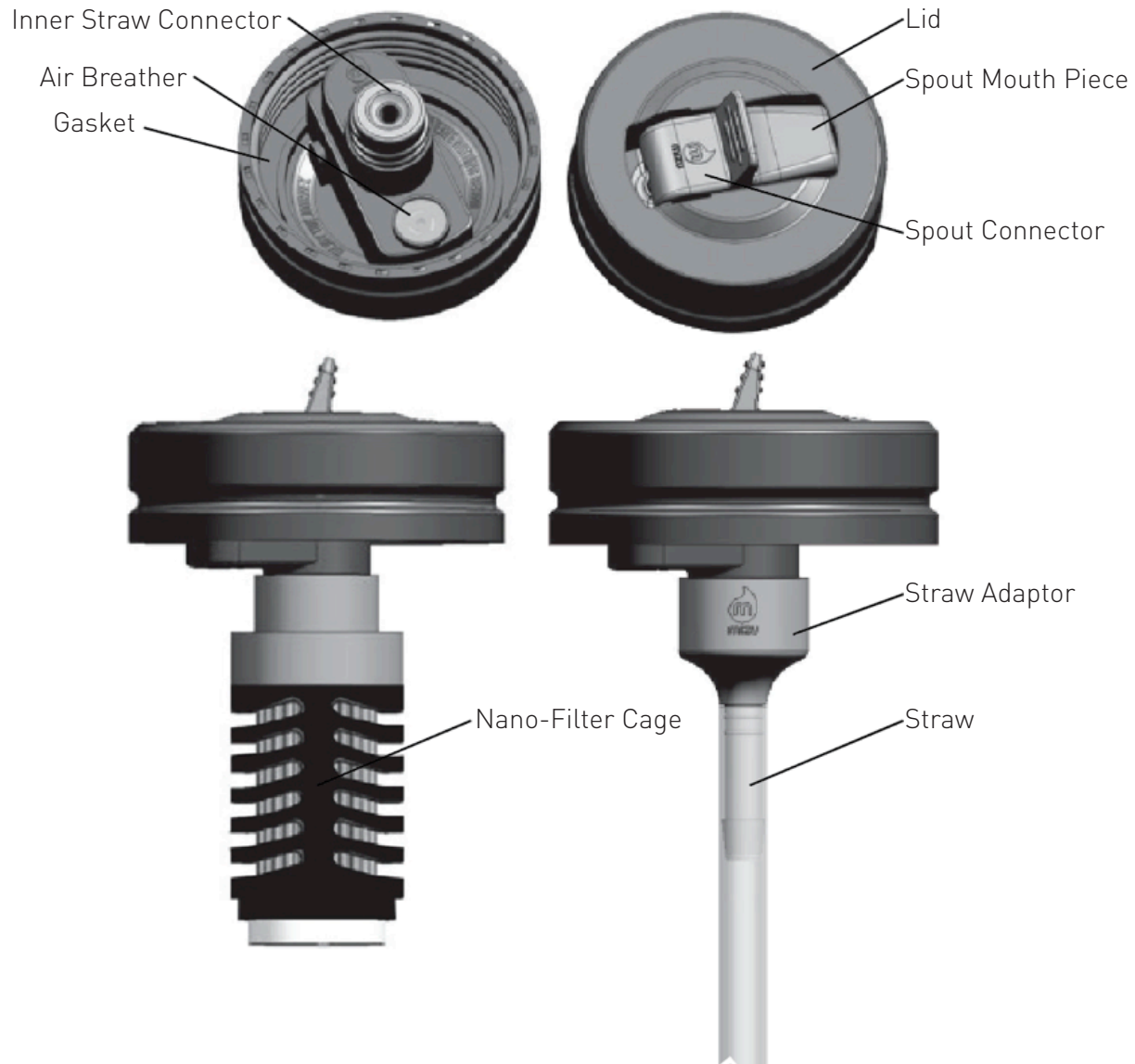


360 NANO-FILTER TECHNOLOGY

Materials

Silicone (BPA Free) Straw, Inner Straw Connector, Air Breather, Gaskets and Spout Mouth Piece.

Polypropylene #5 (BPA Free) Nano-Filter Cage, Lid, Straw Adaptor and Spout Connector.



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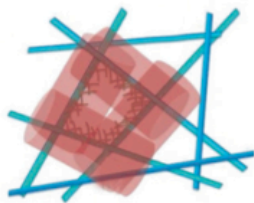
Our advanced Nano-Filter technology system exceeds US EPA guidelines. It is the same technology used by the US military and NASA, removing a minimum of 99.9% of most virus, cysts and bacteria contaminants from water. They work by a combination of mechanical entrapment and electro kinetic absorption, incorporating naturally occurring minerals refined in a laboratory setting, where through nano technology each gram of resulting fiber has a surface area exceeding 500 square meters. That means that contaminants which have a negative charge are either trapped in micro pores or attracted by the positive charge of the filter and are therefore stopped from entering your body.

360LE - Every Day Nano-Filter (12 pleat)

Bottled water is poorly regulated, expensive and often sourced from public water that could contain hundreds of pollutants. It is never fresh, has an acidic pH, and is stored in hot conditions for long periods of time, possibly causing toxic chemicals to leach into the water. Increased levels of pharmaceuticals, hormones and chemicals force the kidneys to filter the heavy metals and toxins from the body, which can lead to serious chronic illnesses, birth defects, and cancers.

360LA - Adventure Nano-Filter (Double Row)

The Adventure Filter removes all harmful contaminants, so fill up with confidence on your next outdoor adventure!



There are approximately 400 layers of these pores in our filters, creating a tortuous path to trap contamination. As the charge field removes negatively charged submicron particles, larger contaminants are captured within the fiber structures of the media.

Water Remediation Technologies - Residential, Commercial, Industrial, Municipal, Desal								
	MIZU	RO	NF	UF	MF	Particulate Cartridges	Carbon Block	Ultra Violet
Contaminants								
Endotoxin	X	X	X	X	X	X		
Virus	X	X	X					X
Bacteria	X	X	X	X	X	X	X	X
Cysts	X	X	X	X	X	X	X	X
Polysaccharides (TEP)	X	X	X	X	X			
Colloids	X	X	X	X				
Particulates	X	X	X	X	X	X	X	
Chemical Reduction	X	X					X	X
Trace Pharmaceuticals	X	X					X	X

Membrane definition: Reverse Osmosis=RO; Nanofiltration=NF; Ultrafiltration=UF; Microfiltration=MF.