



DISPOSABLE FILTERS

Engineered for effortless field sampling in metals analysis.

Waterra Groundwater Filters for Metals Analysis are manufactured in our advanced clean room in Calgary, Alberta, Canada. They are the preferred choice for environmental professionals worldwide who demand precision and reliability in their metals analysis endeavors. Our flagship FHT-45 model, boasting a 0.45-micron media, is an industry standard for metals analysis. With expanded options from 0.1 to 5 microns, these capsule filters come in 300 cm² and 600 cm² sizes. They reduce filter changes, providing a hassle-free alternative to cumbersome disk filters.

FEATURES:

- » **Advanced Pre-Rinse:** Every Waterra Inline Disposable Filter undergoes a thorough pre-rinse with one litre of de-ionized water. This rigorous pre-rinse process ensures cleanliness and is validated by independent ICP/MS analysis.
- » **Particle Retention:** Our filters excel in particle retention beyond the designated micron size range for accurate analysis results.
- » **High-Quality Media:** Constructed from premium polyethersulfone filter media, our filters ensure precise and consistent filtration results.
- » **Extended Media Life:** The high void volume and maximum media exposure extend the lifespan of the filter, offering an economical and sustainable filtration solution; even with turbid samples.
- » **Versatile Inlet Design:** The capsule features a moulded-on compound inlet with a 3/8-inch threaded nipple and a 1/2-inch hose barb. This design ensures easy attachment to various pump and tubing sizes.
- » **Economic Solution:** For applications with lower turbidity, the 300 cm² version provides a cost-effective filtration option.
- » **Metal-Free Assurance:** Rigorous testing ensures non-detection of 34 metals, ensuring reliable results.
- » **Pressure Tested to 60PSI**
- » **Free from PFAS, PFOS, and PFOA**

SPECIFICATIONS	
Pore Size Options	0.1µm, 0.22µm, 0.45µm, 1µm, 5µm
Filter Area	300cm ² & 600cm ²
Inlet Dimensions	3/8"-inch threaded nipple, 1/2-inch barbed inlet
Inlet Tubing Compatibility	1/4-inch OD, 1/2-inch ID & 3/8-inch ID
Outlet Tubing Compatibility	1/4-inch OD & 1/2-inch ID tubing
Material	Polyethersulfone media, Polyethylene, Polypropylene
Metal Detection	Non-detect for 34 metals
Environmental Compliance	PFAS, PFOS, PFOA-free

Metals Analysis RDL (Reporting Detection Limit):

(Values in ug/L or Bq/L as indicated)

PARAMETER	RDL
Aluminum (Al)	5.00 ug/L
Antimony (Sb)	0.50 ug/L
Arsenic (As)	0.10 ug/L
Barium (Ba)	0.50 ug/L
Beryllium (Be)	0.05 ug/L
Bismuth (Bi)	0.05 ug/L
Boron (B)	5.00 ug/L
Cadmium (Cd)	0.01 ug/L
Chromium (Cr)	0.50 ug/L
Cobalt (Co)	0.05 ug/L
Copper (Cu)	0.50 ug/L
Iron (Fe)	10.00 ug/L
Lead (Pb)	0.05 ug/L
Lithium (Li)	0.50 ug/L
Magnesium (Mg)	50.00 ug/L
Manganese (Mn)	1.00 ug/L
Mercury (Hg)	0.05 ug/L
Molybdenum (Mo)	0.10 ug/L
Nickel (Ni)	0.50 ug/L
Phosphorus (P)	50.00 ug/L
Potassium (K)	50.00 ug/L
Selenium (Se)	0.50 ug/L
Silver (Ag)	0.02 ug/L
Sodium (Na)	50.00 ug/L
Strontium (Sr)	0.10 ug/L
Thallium (Tl)	0.02 ug/L
Tin (Sn)	0.05 ug/L
Titanium (Ti)	0.50 ug/L
Tungsten (W)	0.10 ug/L
Uranium (Ur)	0.01 ug/L
Vanadium (V)	0.50 ug/L
Zinc (Zn)	2.00 ug/L
Zirconium (Zr)	0.50 ug/L
Radium 226	< 0.005 Bq/L
Radium 228	< 0.08 Bq/L

Please note: Thorium and Radium 226/228 are not analyzed on a regular basis. All analyses to date have resulted in non-detectable levels.



Elevate your metal analysis efforts with Waterra Groundwater Filters. Our commitment to quality and reliable performance ensures that your filtration needs are met with the highest precision. Choose the appropriate pore size and surface area to match your specific field conditions and analytical requirements. With Waterra, filtration precision knows no bounds.

Have questions? Reach out to our expert technical team for assistance.