

Disposable Capsule Filters

Geotech dispos-a-filter™ Filter Capsules

The Geotech dispos-a-filter™ is a disposable filter capsule designed to perform in-line water filtration in the field. Our filters have a narrow pore distribution and high void volume which allow excellent liquid flow rates at low differential pressures. The dispos-a-filter™ readily fits on 1/4" to 1/2" sized sample tubing with a specially designed sample tubing adapter.

FEATURES

- Ideal for field or laboratory use
- No pre-rinsing, cleaning, or assembly required
- High flow rates - helps minimize your sampling time
- Certified analysis for 68 metals and 7 anions in ppb range
- ISO 9000 lot tested and traceable
- Eliminates filtering cross contamination
- Use with our geopump™ peristaltic pump, hand pump, or pressurized bailers
- Ask for the dispos-a-filter™ universal sample tubing adapter



Geotech dispos-a-filter™

dispos-a-filter™ Universal Sample Tubing Adapter

The dispos-a-filter™ Universal Sample Tubing Adapter is a hose-barbed fitting designed specifically to attach to the dispos-a-filter™ capsule and any flexible sampling tube for in-line sampling. Its sturdy wing-nut design ensures an easy, snug fit for continuous sampling integrity.



dispos-a-filter™ Universal Sample Tubing Adapter



A variety of filter capsules are available to suit your needs

Geotech Environmental Equipment, Inc.
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 (303) 320-4764 • (800) 833-7958 • FAX (303) 322-7242

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Disposable Capsule Filters

Geotech dispos-a-filter™ Filter Capsule Specifications

| | |
|------------------------------------|---|
| Micron size..... | 0.45, 1.0, 5.0, 10.0 |
| Effective Filter Area..... | 700 cm ² , (High Capacity) 350 cm ² , (Medium Capacity) 20 cm ² , (Low Capacity) |
| Thickness..... | 191 µm |
| Tensile strength..... | 3000 PSI |
| Void volume..... | >80% |
| Extractables (boiling water)..... | <3% |
| Water flow (ASTM:F-317-72) | |
| (ml/min/cm2 @ 10 psi)..... | 4 |
| Bubble point (ASTM: F-316-80) | |
| Kerosene (psi)..... | 11 |
| Water (PSI)..... | 23 |
| Versapor filter membrane..... | White acrylic copolymer coating over a nonwoven substrate |
| Maximum operating temperature..... | 190°F (88° C) |



In-line filtration using the Geotech Hand Pump, pressurized bailer and dispos-a-filter™

CERTIFICATION

Rest assured, our dispos-a-filters are certified to exhibit non-detectable levels when a metals analysis is performed on their effluent using ICAP, ICP-MS or GFAA instrumentation. In a Class 100 clean room, ICP-MS instrumentation was used to perform a NEW certification of metals (see list below). All manufactured lots are tested using an independent laboratory using EPA-approved test methods.

| Element | LOD (µg/L) (ppb) | Element | LOD (µg/L) (ppb) | Element | LOD (µg/L) (ppb) | Element | LOD (µg/L) (ppb) |
|-----------------|---------------------|-----------------|---------------------|-------------------|---------------------|-----------------|---------------------|
| Aluminum (Al) | 0.2 | Gallium (Ga) | 0.04 | Osmium (Os) | 0.02 | Thallium (Tl) | 0.05 |
| Antimony (Sb) | 0.02 | Germanium (Ge) | 0.05 | Palladium (Pd) | 0.06 | Thorium (Th) | 0.02 |
| Arsenic (As) | 0.2 | Gold (Au) | 0.05 | Platinum (Pt) | 0.08 | Thulium (Tm) | 0.01 |
| Barium (Ba) | 0.01 | Hafnium (Hf) | 0.03 | Potassium (K) | 25 | Tin (Sn) | 0.2 |
| Beryllium (Be) | 0.04 | Holmium (Ho) | 0.01 | Praseodymium (Pr) | 0.01 | Titanium (Ti) | 0.05 |
| Bismuth (Bi) | 0.04 | Indium (In) | 0.02 | Rhenium (Re) | 0.06 | Tungston (W) | 0.2 |
| Boron (B) | 2 | Iridium (Ir) | 0.06 | Rhodium (Rh) | 0.02 | Uranium (U) | 0.02 |
| Cadmium (Cd) | 0.03 | Iron (Fe) | 1 | Rubidium (Rb) | 0.1 | Vanadium (V) | 0.03 |
| Calcium (Ca) | 25 | Lanthanum (La) | 0.01 | Ruthenium (Ru) | 0.05 | Ytterbium (Yb) | 0.03 |
| Cerium (Ce) | 0.01 | Lead (Pb) | 0.05 | Samarium (Sm) | 0.04 | Yttrium (Y) | 0.02 |
| Cesium (Cs) | 0.02 | Lithium (Li) | 0.03 | Scandium (Sc) | 0.2 | Zinc (Zn) | 1 |
| Chromium (Cr) | 0.03 | Lutetium (Lu) | 0.01 | Selenium (Se) | 7 | Zirconium (Zr) | 0.05 |
| Cobalt (Co) | 0.02 | Magnesium (Mg) | 10 | Silicon (Si) | 0.5 | Chloride (Cl) | 50 |
| Copper (Cu) | 0.5 | Manganese (Mn) | 0.03 | Silver (Ag) | 0.03 | Sulfate (So4) | 10 |
| Dysprosium (Dy) | 0.04 | Mercury (Hg) | 0.05 | Sodium (Na) | 25 | Flouride (F) | 2 |
| Erbium (Er) | 0.02 | Molybdenum (Mo) | 0.05 | Strontium (Sr) | 0.01 | Nitrite (NO2) | 10 |
| Europium (Eu) | 0.02 | Neodymium (Nd) | 0.02 | Tantalum (Ta) | 0.02 | Bromide (Br) | 5 |
| Gadolinium (Gd) | 0.04 | Nickel (Ni) | 0.5 | Tellurium (Te) | 0.04 | Nitrate (NO3) | 10 |
| | | Niobium (Nb) | 0.02 | Terbium (Tb) | 0.02 | Phosphate (HPO) | 5 |

*LOD: Limits of Detection (ppb)

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