

Disposable Filters

Model 860

Solinst supplies in-line disposable filters designed specifically for the preparation of groundwater samples for dissolved metals analysis and for filtering large volumes of turbid groundwater.

These filters are an easy, effective way to meet the filtration requirements of the U.S. Environmental Protection Agency, as they incorporate a 0.45 µm membrane into a disposable device.



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Advantages

Filter Design

- No bulky holder requiring replaceable filter discs
- More than five times the effective filtration area than obtained with 142 mm disc filters
- Reduces the need for multiple filter changes
- Assures rapid sample filtration
- No handling of the filter element
- Self-contained and disposable
- No hazardous residue on the filter housing

Saves Time and Money

- No costly decontamination
- No assembly/disassembly, nor the multiple filter changes associated with reusable filter holders

700 cm² High Capacity Filter

Excellent for sampling in silty or particulate-laden groundwater, the high capacity filter gives 700 cm² of effective filtration area.

Disposable Filter Rinse Results

Disposable Filters have been tested for the following chemicals and the effluent was found to have non-detectable levels using equipment with the following detection limits.

| Element | Detection Limit (mg/L) | Element | Detection Limit (mg/L) |
|-----------|------------------------|-------------|------------------------|
| Silver | <0.0001 | Molybdenum | <0.001 |
| Aluminum | <0.005 | Sodium | <1 |
| Arsenic | <0.002 | Nickel | <0.001 |
| Boron | <0.005 | Phosphorous | <0.05 |
| Barium | <0.005 | Lead | <0.0005 |
| Beryllium | <0.001 | Antimony | 0.0117 |
| Bismuth | <0.001 | Selenium | <0.002 |
| Calcium | <0.5 | Silicon | 0.19 |
| Cadmium | <0.0001 | Tin | <0.001 |
| Cobalt | <0.0001 | Strontium | <0.001 |
| Chromium | <0.005 | Titanium | <0.005 |
| Copper | <0.0005 | Thallium | <0.00005 |
| Iron | <0.03 | Uranium | <0.0001 |
| Potassium | <0.01 | Vanadium | <0.0005 |
| Magnesium | <0.05 | Zinc | <0.005 |
| Manganese | <0.005 | | |

Specifications

Materials

Housings: Polypropylene
Filter Media: Polyether Sulphone

Pore Size

0.45 µm

Maximum Operating Pressure

50 psi (3.4 bar)

Maximum Operating Pressure

High Flow: 49°C

Inlet and Outlet Connections

Each filter has a 1/2" (12 mm) barb, reducing to 1/4" (6 mm) NPT inlet connector which fits 3/8" x 1/4" (10 mm x 6 mm) or 5/8" x 1/2" (16 mm x 12 mm) tubing. The outlet connector is a 1/2" (12 mm) straight tube.