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.

Advantages
Filter Design
- Compact size with no bulky holder requiring replaceable filter discs
- Almost five times the effective filtration area obtained with 142 mm disc filters
- Reduces the need for multiple filter changes
- Assures rapid sample filtration
- Fast change-out for increased efficiency
- No hazardous residue on the filter housing
- No handling of the filter element for enhanced safety
- Self-contained, low maintenance and disposable

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

Specifications

<table>
<thead>
<tr>
<th>Materials</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Housings</td>
<td>Polypropylene</td>
</tr>
<tr>
<td>Membrane</td>
<td>Polypropylene</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Pore Size</th>
<th>0.45 µm</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Maximum Operating Pressure</th>
<th>72 psi (5 bar)</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Maximum Operating Temperature</th>
<th>High Flow: 39ºC (102ºF)</th>
</tr>
</thead>
</table>

650 cm² High Capacity Filter

Excellent for sampling in silty or particulate-laden groundwater, the high capacity filter gives 650 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.

<table>
<thead>
<tr>
<th>Element</th>
<th>Detection Limit (mg/L)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Antimony</td>
<td>&lt;0.0010</td>
</tr>
<tr>
<td>Arsenic</td>
<td>&lt;0.0010</td>
</tr>
<tr>
<td>Beryllium</td>
<td>&lt;0.0020</td>
</tr>
<tr>
<td>Cadmium</td>
<td>&lt;0.0050</td>
</tr>
<tr>
<td>Copper</td>
<td>&lt;0.0200</td>
</tr>
<tr>
<td>Lead</td>
<td>&lt;0.0050</td>
</tr>
<tr>
<td>Chromium</td>
<td>&lt;0.0100</td>
</tr>
<tr>
<td>Mercury</td>
<td>&lt;0.0002</td>
</tr>
<tr>
<td>Nickel</td>
<td>&lt;0.0200</td>
</tr>
<tr>
<td>Selenium</td>
<td>&lt;0.0200</td>
</tr>
<tr>
<td>Silver</td>
<td>&lt;0.0300</td>
</tr>
<tr>
<td>Thallium</td>
<td>&lt;0.0010</td>
</tr>
<tr>
<td>Zinc</td>
<td>&lt;0.0300</td>
</tr>
<tr>
<td>Benzene</td>
<td>&lt;0.0010</td>
</tr>
<tr>
<td>Bromomethane</td>
<td>&lt;0.0050</td>
</tr>
<tr>
<td>Carbon</td>
<td>&lt;0.0010</td>
</tr>
<tr>
<td>TetraChloride</td>
<td>&lt;0.0010</td>
</tr>
<tr>
<td>Chlorobenzene</td>
<td>&lt;0.0010</td>
</tr>
<tr>
<td>Chloro-dibromomethane</td>
<td>&lt;0.0010</td>
</tr>
<tr>
<td>Dichloro-benzene Group</td>
<td>&lt;0.0010</td>
</tr>
<tr>
<td>Dichloro-ethane Group</td>
<td>&lt;0.0010</td>
</tr>
<tr>
<td>PCB Group</td>
<td>&lt;0.0005</td>
</tr>
<tr>
<td>PP Acid</td>
<td>&lt;0.0100</td>
</tr>
<tr>
<td>Extractables</td>
<td>&lt;0.0100</td>
</tr>
</tbody>
</table>

Inlet and Outlet Connections

Each filter has 3/8” (9.5 mm) hose barb inlet and outlet connections, as well as a 1/8” NPTM vent/drain connection.