PureClear™
Precision Wound Elements

PureClear elements deliver reliable and consistent filtration of fluids in a wide range of applications. The continuously graded pore structure creates a network of tapered passages that capture contaminants throughout the media. The true depth filtration prevents the element from blinding off when filtering fluids containing deformable particles or gels.

PureClear elements are an excellent choice as a pre-filter to protect more expensive final filters. The element’s mechanical strength enables it to be used in demanding applications such as the filtration of well completion fluids or lube oil.

PureClear elements are available in various materials of construction offering excellent chemical compatibility with a variety of fluids and temperature ranges. The extended core option eliminates the need for expensive vessel hardware and allows for quick easy change-out. PureClear Series elements are available in a range of configurations to fit most commercially available filter vessels.

THE BOTTOM LINE

- **Extended Service Life**
  Most fluid streams have a wide range of contaminants with different sizes and shapes. PureClear elements capture and distribute these contaminants throughout a complex fibrous medium that optimizes flow rate to differential pressure and eliminates blinding of a single layer of media. This characteristic of the PureClear series maximizes the element’s on-stream life, reduces element change-out costs and energy usage.

- **Application Flexibility**
  The PureClear series offers the most broad range of materials and element configurations available. As application needs change, PureClear offers the flexibility you need without having to change or modify vessels.

- **The Choice is Yours**
  PECOFacet is an industry leader in liquid filtration products. Don’t get locked into a single source. Adding PECOFacet to the supplier list for all your liquid filtration needs will ensure your access to the best products at competitive prices. PureClear elements are made with quality materials in an ISO certified manufacturing environment. Performance and structural integrity are backed by a no-nonsense factory warranty. Send us the manufacturer model number and we’ll do the rest.

SPECIFICATIONS

MATERIALS SELECTION GUIDE

<table>
<thead>
<tr>
<th>MEDIA</th>
<th>MAX. TEMP. [F]</th>
<th>CHARACTERISTICS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bleached Cotton</td>
<td>300</td>
<td>For potable liquids, vegetable oils, beverages, organic solvents, water, dilute acids, petroleum oils and other fluids.</td>
</tr>
<tr>
<td>Natural Cotton</td>
<td>300</td>
<td>Used for same applications as bleached cotton.</td>
</tr>
<tr>
<td>Fiberglass</td>
<td>750</td>
<td>For organic acids, organic solvents, petroleum oils, mineral acids and other corrosive or high temperature fluids.</td>
</tr>
<tr>
<td>FDA Polypropylene</td>
<td>180</td>
<td>For water, potable liquids, animal and vegetable oils, food and beverages. Very effective in low viscosity fluids.</td>
</tr>
<tr>
<td>Polypropylene</td>
<td>180</td>
<td>For organic acids, alcalis and many other fluids.</td>
</tr>
<tr>
<td>Polyester</td>
<td>250</td>
<td>Chemical compatibility similar to cotton and polypropylene. Has higher temperature resistance than polypropylene.</td>
</tr>
<tr>
<td>Nylon</td>
<td>350</td>
<td>For special process applications, concentrated alkalis and hydrocarbons.</td>
</tr>
<tr>
<td>Rayon</td>
<td>300</td>
<td>Chemical compatibility similar to cotton. Used primarily in filtration of petroleum oils.</td>
</tr>
<tr>
<td>Ryton</td>
<td>375</td>
<td>Chemical compatibility similar to nylon and fiberglass. Excellent resistance to solvents and acids except for hot sulfuric acid and nitric acid.</td>
</tr>
</tbody>
</table>

CORE SELECTION GUIDE

<table>
<thead>
<tr>
<th>CORE</th>
<th>MAX. TEMP. [F]</th>
<th>CHARACTERISTICS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tin Plated Steel</td>
<td>400</td>
<td>General purpose applications.</td>
</tr>
<tr>
<td>Polypropylene</td>
<td>120</td>
<td>For lower temperature applications of corrosive fluids and gases. Easily incinerates to a trace of ash. FDA compliant material.</td>
</tr>
<tr>
<td>304 Stainless</td>
<td>750</td>
<td>For high temperature dilute acids and moderately corrosive fluids.</td>
</tr>
<tr>
<td>316 Stainless</td>
<td>750</td>
<td>For high temperature applications and highly corrosive fluids.</td>
</tr>
</tbody>
</table>

APPLICATIONS

- **Natural Gas Industry**
  well completion fluids, produced water, lube oil, glycol, amine, cooling water, hydraulic fluid

- **Refining**
  lube oil, hydraulic fluids, process water, feed stocks, amine, cooling water, stripping and leaching water, boiler feed water

- **Pulp & Paper**
  liquor, white water, trim jet water, lube oil, cooling water, boiler feed water, hydraulic fluid

- **General Industrial**
  acids, alcalis, petroleum oils, potable water, plating solutions, paints, coatings, solvents, ink, animal and vegetable oils
**OPERATING DATA**
- Recommended change-out D.P. is 25 psid
- Max D.P. 60 psid at ambient temperature
- Normal flow direction is outside to inside

**REPLACEMENT OPTION FOR**
- Cuno
- Delta Pure
- FilterCor
- GE Osmonics
- Jonell
- Johnson
- Matrix
- Nowata
- Pall
- Parker
- United Filters
- Others

**VESELS**
- PECO Series 55, 65, RFF, 56, 66, RGG
- United UFA, UFB, UFC
- Others

**NOTES**
1. Max. D.P. may be limited by the vessel manufacturer’s design.

**ORDERING INFORMATION**

<table>
<thead>
<tr>
<th>U</th>
<th>C</th>
<th>S4</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>40</td>
<td></td>
</tr>
</tbody>
</table>

**GRADE [µm]:** 0.5, 1, 3, 5, 10, 15, 20, 25, 30, 40, 50, 75, 100, 125, 150, 200

**LENGTH:**
- 4
- 5
- 6
- 7
- 8
- 9
- 9.75
- 9.875
- 10
- 12
- 12.5
- 18
- 19.5
- 19.75
- 20
- 27
- 29.25
- 29.5
- 30
- 36
- 39
- 40
- 50
- 60

**END TREATMENT**
- EC = crimped extended core
- X2 = 316 s/s core extender
- X3 = polyprop core extender
- A6 = Std 316 s/s cap & spring assy
- W = Wild Cat cap & spring assy
- O = 222 / Closed
- F = 222 / Fin
- C = 226 / Fin
- J = 226 / Closed

**CORE**
- P = Polypropylene
- T = Tin Plated Steel
- S4 = 304 Stainless Steel
- S6 = 316 Stainless Steel
- PG = Glass Filled Polypropylene
- PH = Heavy Walled Polypropylene
- TW = Tin Plated Steel Wild Cat
- PW = Polypropylene Wild Cat
- S4W = 304 Stainless Steel Wild Cat
- K = polyester

**GASKET MATERIAL** (If Required)
- B = Buna
- V = Fluorocarbon
- E = EPR
- S = Silicone

**PARTICLE RETENTION**
- Grade [µm]: 0.5, 1, 3, 5, 10, 15, 20, 25, 30, 40, 50, 75, 100, 125, 150, 200, 300, 400

**PARTIAL DIMENSIONS**
- Other diameters available from 1.5” up to 4.5”

- 2.375 1.0 see ordering information below
- 4.5 1.0 see ordering information below

**MEDIA**
- CU = Natural Cotton
- C = FDA Bleached Cotton
- P = Polypropylene
- PP = FDA Polypropylene
- R = Rayon
- K = Polyester
- N = Nylon
- G = Fiberglass
- RT = Ryton
- F = Fibrillated Polypropylene

**PACKAGING**
- Blank = Bulk
- P = plain box/bag
- I - Individual Bag

**SPECIAL DIAMETER & MISC.**
- BB = 4.5"