SupaPleat II Absolute Rated Pleated Filter

SupaPleat II high surface area pleated cartridges have been developed to suit industrial processes where high levels of efficiency and extremely low pressure loss are required. In-house developments have optimised the filter media to give higher levels of porosity, and state of the art manufacturing technologies give excellent build quality.

Three media options are offered as standard, the PP, GP and MP. The PP features the specific CRY Cryptosporidium grade designed for Food and Beverage applications. All feature 100% polypropylene cage, core and end cap assembly.

Thermal welding processes seal all components, eliminating adhesives and extractables, and optimising cartridge integrity.

SupaPleat II PP cartridges feature:
- Melt blown polypropylene media
- Extended life version available
- Wide chemical compatibility
- Materials meet US FDA title 21 and USP Class VI requirements
- Meets the requirements for food contact as detailed in European Regulation (EC) Number 1935/2004
- CRY Cryptosporidium grade

SupaPleat II GP cartridges feature:
- Glass microfibre media
- Extremely high dirt holding capacity

SupaPleat II MP cartridges feature:
- Nylon monofilament woven mesh media
- High flow, low pressure loss

Absolute Rated Filter Media
- Available from 0.5 to 400µm
- Consistent reliable performance
- Beta 5000 rating

Product Features
SupaPleat II filter cartridges are produced using an improved manufacturing process resulting in the following features:
- One piece high strength all polypropylene support core up to 1017mm (40")
- High surface area, resulting in low clean Δp and excellent dirt holding capacity
- 100% thermally welded construction for maximum integrity and strength
- All polypropylene hardware
- Optional high strength core for improved thermal stability at continuously elevated temperatures
- Suitable for most sanitisation regimes including steaming, autoclaving, hot and most common sanitising agents.

(Note: Steaming, autoclaving and hot water sanitisation must use the Reinforced Polypropylene End Cap option)

Features and Benefits
- Absolute removal ratings for consistent and reliable performance
- PP - Wide chemical compatibility using 100% polypropylene to meet FDA requirements
- XP - Extended life version for more challenging applications
- GP - Glass microfibre media gives excellent dirt holding capacity
- MP - nylon monofilament mesh offers selective retention with the ability to be cleaned
- Thermal bonding process eliminates adhesives and ensures minimal extractables
- Cryptosporidium grade (CRY) with typical 10^4 log reduction value for use in Food and Beverage applications
- Batch traceability
- ATEX compliant packaging as standard
- All individual packing bags are anti static

See product validation guide for further details of test methods and rated efficiencies

Industries and Applications

Food and Beverage
- Bottled water, Beers, Wines, Flavours, Polishing lines, General clarification

Pharmaceutical
- Solvent discharge, Raw water supplies

Fine Chemicals
- Polymers, Acids, Bases, Solvents

Cosmetics
- Alcohol, Essential oils, Mouthwash solutions

Metal Finishing
- Plating solutions, Wash solutions, Paints, Resins, Varnishes

Water Treatment
- Pre reverse osmosis, UV protection, Resin trap, Cryptosporidium removal

Automotive
- Wash solutions, Cooling fluid, Blanking wash oils, Electrophoretic paints, Top coats
## SupaPleat Technical Data

### Dimensions
| Outside Diameter: | 66mm |
| Core Diameter:    | 27mm |
| Typical Surface Area: (per 10") |
| 03PP:             | 0.4 - 0.6m² |
| 03GP:             | 0.36 - 0.39m² |
| 03MP:             | 0.19 - 0.25m² |
| 03XP:             | 0.30m² |

### Sterilisation and Sanitisation
- **Steam:** 121°C for 60 mins (240 cycles)
- **Hot Water:** 90°C for 30 mins (0.2 bar Δp max)

### Maximum Operating Conditions
- **Temperature:** 80°C
- Recommended change-out differential pressure: 2.5 Bar

![Flow Rates For Water (10" Element)](image)

### Pressure Loss
<table>
<thead>
<tr>
<th>Maximum ΔP</th>
<th>PP Media</th>
<th>PP Media</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>PP Core</td>
<td>Reinforced PP Core</td>
</tr>
<tr>
<td>@ 20°C</td>
<td>4.0</td>
<td>4.0</td>
</tr>
<tr>
<td>@ 50°C</td>
<td>1.5</td>
<td>4.0</td>
</tr>
<tr>
<td>@ 80°C</td>
<td>0.25</td>
<td>2.4</td>
</tr>
</tbody>
</table>

Product validation guide available on request. All SupaPleat II cartridges are manufactured under strict control with batch number identification, giving full traceability on all components.