POLIXSTER

- Integrally made with Polyester
- High chemical compatibility
- High effective surface area
- High resistance to temperature
- Steamable and sanitizable
- FDA-listed materials per CFR21

POLIXSTER is obtained by pleating up to 4 polyester layers of decreasing porosity to achieve high effective filtration area, high dirt holding capacity and controlled filter ratings.

All the components are in polyester, assembled by thermowelding process; its high chemical compatibility gives the best performance in filtration of solvents, acids and bases in chemical and petrochemical applications.

PH grade is preflushed with non-pyrogenic water and suitable for bulk products filtration used by pharmaceutical industries.

### MATERIALS OF CONSTRUCTION

<table>
<thead>
<tr>
<th>Filter media</th>
<th>polyester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Upstream supports</td>
<td>polyester</td>
</tr>
<tr>
<td>Downstream supports</td>
<td>polyester</td>
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<tr>
<td>Internal core</td>
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<tr>
<td>External core</td>
<td>polyester</td>
</tr>
<tr>
<td>End caps/adapters</td>
<td>polyester</td>
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</tbody>
</table>

### OPERATION CONDITIONS

- max operating temperature: 120 °C
- sterilization with steam: Continuously with cycles of 20 minutes at 121 °C
- sanitization with hot water: 90 °C max
- sanitization with chemicals: Can be sanitized by standard chemical agent
- max differential pressure: 5,0 bar a 25 °C
- recommended change out differential pressure: 2,0 bar a 25 °C

### FILTER USAGE CHEMICAL COMPATIBILITY

- Acetyl acetate
- Acetone
- Benzene
- Butyl acetate
- Butyl alcohol
- Carbon tetrachloride
- Chloroform
- Cyclohexane
- Dimethyloxide
- Dioxane
- Ether petroleum
- Ethyl acetate
- Ethylic ether
- Formaldehyde 30%
- Formic acid max 20%
- Glacial acetic acid
- Hexane
- Hydrofluoridric acid max 20%
- Hydrogen peroxide (30%)
- Isopropyl ether
- Kerosene
- Methyl acetate
- Methyl chloride
- Methylketone
- Phosphoric acid max 20%
- Silicon and mineral oils
- Sulphuric acid max 5N
- Tetrahydrofuran
- Trichloroethylene
- Toluene
- Xylene

### FOOD-SAFETY


### BIO-SAFETY

Specific for “PH” grade: the filter meets USP “Water for injection” requirements for particle release and the effluent is Non-Pyrogenic per USP Bacterial Endotoxins (≤ 0.25 EU/ml).
WATER FLOW RATE FOR 10” CARTRIDGE

POLIXSTER ORDERING INFORMATION

END FITTING | CODE  
---|---
DOE: double open end with flat gaskets. | 200
SOE: open end with (2) O-Ring 2.222. Blind end with flat top. | 203
SOE: open end with (2) O-Ring 2.226 and 2 bayonet locks. Blind end with fin. | 207
SOE: open end with (1) O-Ring. Blind end with flat top. | 209

_FLOW RATE (l/h) | PRESSURE DROP (bar)
---|---
0 | 0,01
250 | 0,02
500 | 0,03
750 | 0,04
1000 | 0,05
1250 | 0,06
1500 | 0,07

FILTRATION RATING µm | CODE
---|---
0,5 | ED
1 | EF
3 | EG
5 | ER
10 | ES
20 | ET
40 | EV

DESCRIPTION | CODE
---|---
Prefluxed with non-pyrogenic water; Quality Certification in the box | PH
General grade without certification | GG
Water Grade | WG
Product certified Halal by WHA-IT00172-002 | HIA

Data contained in this bulletin are informative and subject to change without notice. User is responsible for determining whether the product is fit for particular purpose and suitable for User’s method of application.

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