

## POLIXSTER ADM FREE

- Integrally made of Polyester
- High chemical compatibility
- High effective surface area
- High resistance to temperature
- Steamable and sanitizable
- EC and FDA-listed materials
- Materials without substances of animal origin (ADM FREE)



POLIXSTER ADM FREE is obtained by pleating together 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, without substances of animal origin 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

|                            |           |
|----------------------------|-----------|
| <b>Filter media</b>        | polyester |
| <b>Upstream supports</b>   | polyester |
| <b>Downstream supports</b> | polyester |
| <b>Internal core</b>       | polyester |
| <b>External core</b>       | polyester |
| <b>End caps/adapters</b>   | polyester |

### FOOD-SAFETY

POLIXSTER ADM FREE filter element materials meet (EU) regulation 10/2011 and its amendments, regulations (EC) 1935/2004 and 1895/2005.

### OPERATING CONDITIONS

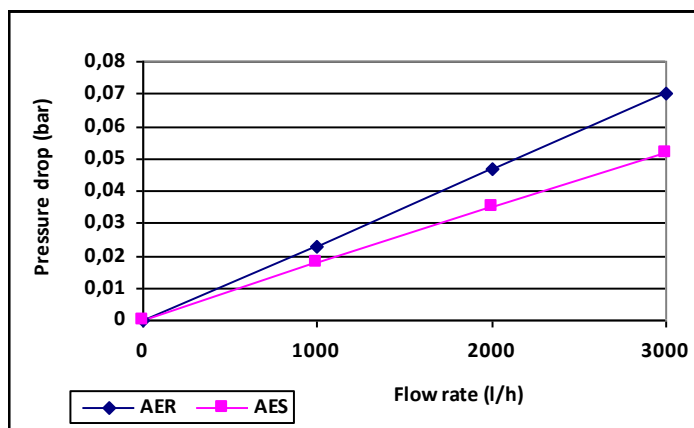
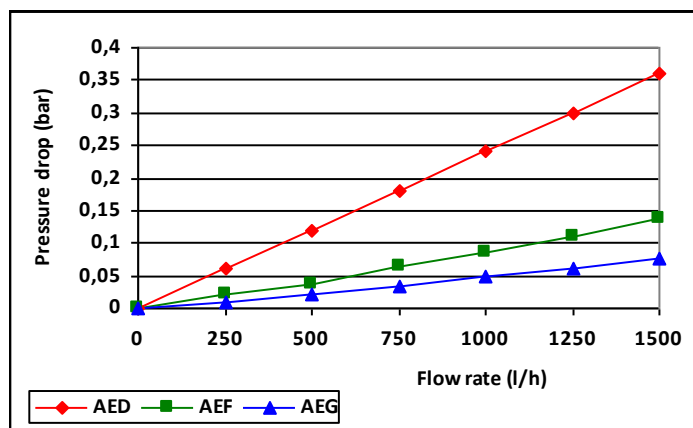
|  |  |
|--|--|
| - max operating temperature                    | 120 °C   |
| - sterilization with steam                     | Continuously with cycles of 20 minutes at 121 °C |
| - sanitization with hot water                  | 90 °C max  |
| - sanitization with chemicals                  | Can be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

| CODE       | FILTRATION RATING (µm) | MAX FLOW RATE FOR 10" CARTRIDGE (l/h) |
|------------|------------------------|---------------------------------------|
| <b>AED</b> | 0,5                    | 400                                   |
| <b>AEF</b> | 1                      | 800                                   |
| <b>AEG</b> | 3                      | 3000                                  |
| <b>AER</b> | 5                      | 3000                                  |
| <b>AES</b> | 10                     | 3000                                  |
| <b>AET</b> | 20                     | 3000                                  |
| <b>AEV</b> | 40                     | 3000                                  |

### FILTER USAGE CHEMICAL COMPATIBILITY AT ROOM TEMPERATURE

- Benzene
- Butyl acetate
- Butyl alcohol
- Carbon tetrachloride
- Cyclohexane
- Dioxane
- Ethanol
- Ether petroleum
- Ethylic ether
- Formaldehyde 30%
- Formic acid max 20%
- Hexane
- Hydrofluoric acid max 20%
- Hydrogen peroxide (30%)
- Methyl acetate
- Methylketone
- Phosphoric acid max 20%
- Silicon and mineral oils
- Sulphuric acid max 5N
- Tetrahydrofuran
- Xylene

## WATER FLOW RATE FOR 10" CARTRIDGE



## POLIXSTER ADM FREE ORDERING INFORMATION

**PKEA - 207 1 -**

**AEF**

**PH**

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

| FILTRATION RATING<br>µm | CODE       |
|-------------------------|------------|
| 0,5                     | <b>AED</b> |
| 1                       | <b>AEF</b> |
| 3                       | <b>AEG</b> |
| 5                       | <b>AER</b> |
| 10                      | <b>AES</b> |
| 20                      | <b>AET</b> |
| 40                      | <b>AEV</b> |

| CODE           | O-RING     |             |
|----------------|------------|-------------|
| <b>NO CODE</b> | Standard   | Silicone    |
| <b>F *</b>     | On request | FEP         |
| <b>Z °</b>     | On request | Soft teflon |

\* Only for SOE  
° Only for DOE

| NOMINAL LENGTH | CODE     |
|----------------|----------|
| 10"            | <b>1</b> |
| 20"            | <b>2</b> |
| 30"            | <b>3</b> |
| 40"            | <b>4</b> |

| DESCRIPTION  | CODE      |
|--|-----------|
| Prefluxed with non-pyrogenic water; Quality Certification in the box | <b>PH</b> |

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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