

## POLIXSTER

- Integrally made of Polyester
- High chemical compatibility
- High effective surface area
- High resistance to temperature
- Steamable and sanitizable
- EC and FDA-listed materials



POLIXSTER 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, 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-PKE filter element material meet (EU) regulation 10/2011 and its amendments, regulations (EC) 1935/2004 and 1895/2005.

### 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 ( $\leq 0.25$  EU/ml).

### OPERATING CONDITIONS

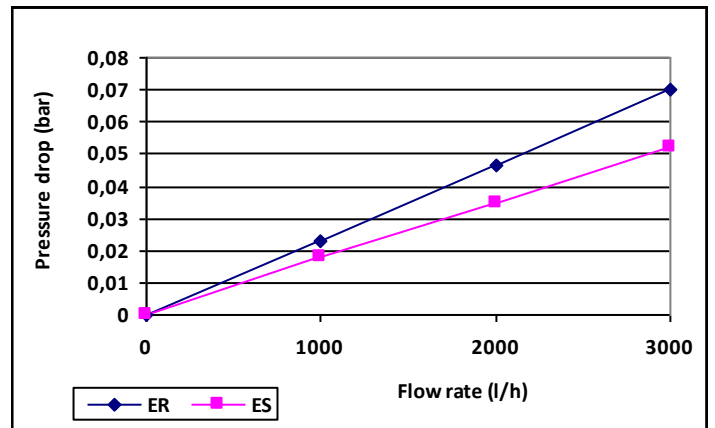
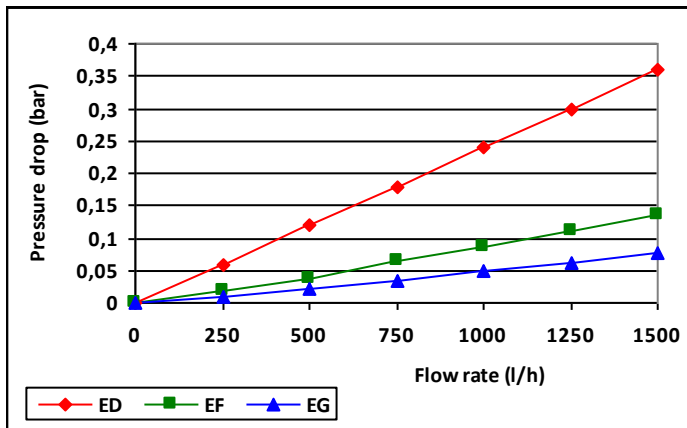
<b>- max operating temperature</b>	120 °C
<b>- sterilization with steam</b>	Continuously with cycles of 20 minutes at 121 °C
<b>- sanitization with hot water</b>	90 °C max
<b>- sanitization with chemicals</b>	Can be sanitized by standard chemical agent
<b>- max differential pressure</b>	5,0 bar at 25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

CODE	FILTRATION RATING ( $\mu\text{m}$ )	MAX FLOW RATE FOR 10" CARTRIDGE (l/h)
ED	0,5	400
EF	1	800
EG	3	3000
ER	5	3000
ES	10	3000
ET	20	3000
EV	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
- Methylethylketone
- Phosphoric acid max 20%
- Silicon and mineral oils
- Sulphuric acid max 5N
- Tetrahydrofuran
- Xylene

## WATER FLOW RATE FOR 10" CARTRIDGE



## POLIXSTER ORDERING INFORMATION

**PKE - 207 1 - EF - GG - SB -**

END FITTING	CODE
DOE: double open end with flat gaskets.	<b>200</b>
SOE: open end with (2) O-Ring 2.222. Blind end with flat top.	<b>203</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 µm	CODE
0,5	<b>ED</b>
1	<b>EF</b>
3	<b>EG</b>
5	<b>ER</b>
10	<b>ES</b>
20	<b>ET</b>
40	<b>EV</b>

CODE	O-RING	
<b>NO CODE</b>	Standard	EPDM
<b>S</b>	On request	Silicon
<b>F</b>	On request	FEP
<b>V</b>	On request	Viton

CODE	PACKING
<b>SB</b>	Single box
<b>MB</b>	Multiple box

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>
General grade without certification	<b>GG</b>
Water Grade	<b>WG</b>
Product certified Halal by WHA-IT00172-002	<b>HIA</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.

DS-PKE-722-UK-21



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