

# POLIXSTER

Polyester pleated cartridge

EN Data sheet

QUALI FILTRES  
SIEBEC Group

## DESCRIPTION

- Made entirely of polyester
- High chemical compatibility
- Large, effective filter surface
- High temperature resistance
- Can be sterilised and sanitised
- Complies with FDA regulations in accordance with CFR21

The POLIXSTER cartridge is made up of 4 layers of Polyester with decreasing porosity to achieve a very large effective filtering surface, a very high retention capacity and precise filtration.

All the components of the cartridge are made of polyester, assembled by heat-welding. Its excellent chemical compatibility gives it the best performance with solvents, acids and bases in the chemical and petrochemical industries.

The 'PH' grade is pre-rinsed with pyrogen-free water and can be used for pharmaceutical production processes.



## SECURITY & STANDARDS

### Food security

POLIXSTER filter cartridges comply with Regulation (EU) 10/2011 and its adjustments, Regulations (EC) 1935/2004 and 1895/2005.

### Biological security

PH grade: The filter complies with USP standards for 'Water for Injectables' and requirements for particle migration and apyrogenic effluent following USB Bacterial Endotoxins (< 0.25 EU/ml).

## INTEGRITY TESTS

Code	Maximum filtration (microns)	Maximum flow per 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

## BUILDING MATERIALS

Filter media	Polyester
Front-end media support	Polyester
Downstream media support	Polyester
Inner cage	Polyester
Outer cage	Polyester
Nozzle / adapter	Polyester

## CONDITIONS OF USE

Maximum continuous operating temperature	120°C
Maximum cumulative steam sterilisation time	Continuous at 125°C with 20-minute cycles
Hot water disinfection	90°C max
Chemical disinfection	Possible with all ordinary chemical agents
Maximum pressure drop	5,0 bar at 25°C
Maximum recommended pressure drop	2,0 bar at 25°C

## CHEMICAL COMPATIBILITY FOR USE OF THE CARTRIDGE

- Acetylene acetate
- Acetone
- Benzene
- Butyl acetate
- Carbon tetrachloride
- Chloroform
- Cyclohexane
- Dioxane
- Ethanol
- Ether gasoline
- Ethylene acetate
- Ethyl ether
- Formaldehyde 30% max.
- Formic acid 20% max.
- Ice acetic acid
- Hexane
- Hydrofluoric acid 20%max.
- Hydrogen peroxide (30%)
- Isopropyl ether
- Kerozene
- Methyl acetate
- Methyl chlorine
- Phosphoric Acid (20%)
- Silicone and mineral oils
- Sulphuric acid (5N max.)
- Tetrahydrofuran
- Trichloroethylene
- Toluene
- Xylene



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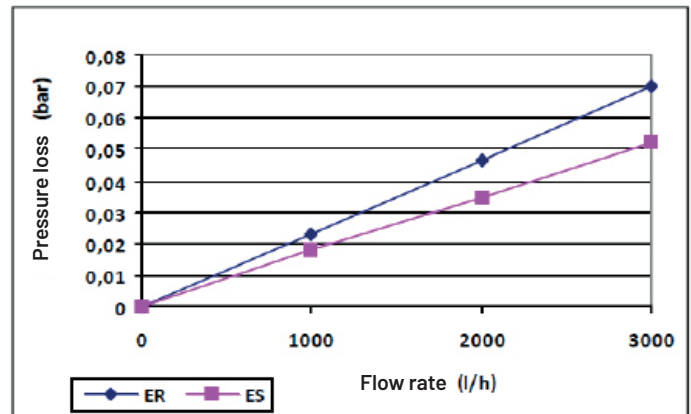
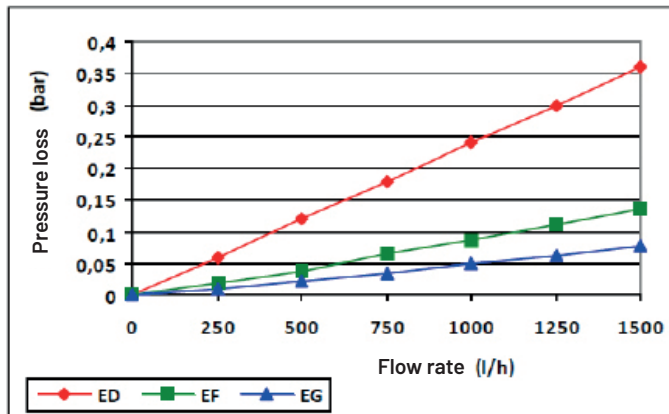
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We are here to help.  
**Contact-us!**

## TYPICAL FLOW IN L/H FOR A 10" CARTRIDGE



## CODING OF THE POLIXSTER CARTRIDGE



Table 1 : End cap

Code	Description
200	Ddouble opening with flat seals
203	SOE : single opening with 2 O-rings 2.222. and flat seal at the other end
207	SOE : single opening with 2 O-rings 2.226. + bayonet and point closure at the other end
209	SOE : single opening with 1 O-ring and flat seal at the other end

Table 4 : Production grade

Code	Description
PH	Pre-rinsed with pyrogen-free water; quality certificate in box
GG	General grade
WG	Water grade
HIA	Pre-rinsed with pyrogen-free water, with HALAL quality certificate

Table 2 : nominal length

Code	Description
1	10"
2	20"
3	30"
4	40"

Table 5 : Packaging

Code	Description
SB	Individual boxes
MB	Multiple boxes

Table 3 : Filtration threshold

Code	Description
ED	0,5
EF	1
EG	3
ER	5
ES	10
ET	20
EV	40

Table 6 : Seal

Code	Description	
Without	Standard	EPDM
S	On request	Silicone
F	On request	FEP
V	On request	Viton