

## MICRONYL High performance nylon 66



- Easy integrity testable in situ
- Repeatedly steamable in situ and in autoclave
- Thermowelded construction
- EC-listed materials for Food contact
- FDA-listed materials per 21 CFR
- Bio-Safety per USP—Plastics
- Low filter extractables even with solvents
- Validation Guide available on request

MICRONYL filter element is designed and manufactured to satisfy and assure high quality and consistent performances in critical applications.

MICRONYL cartridge includes Nylon 66 membrane at controlled porosity and provides high efficiency in bacteria retention.

The membrane is pleated with support and drainage layers in polyester which give high endurance versus thermal sterilization and hydraulic pulsation stress.

The intrinsically water wettability of nylon and polyester allows easy integrity testability. Typical application are downstream softening demineralization systems and in all process where cold sterilization is needed. Manufacturing is completed in a controlled environment; each filter is integrity tested.

### MATERIALS OF CONSTRUCTION

<b>Filter media</b>	nylon 66
<b>Upstream supports</b>	polyester
<b>Downstream supports</b>	polyester
<b>Internal Core</b>	polypropylene
<b>External Cage</b>	polypropylene
<b>End caps / Adapters</b>	polyester

### FOOD-SAFETY

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

### BIO-SAFETY

Filter media and components pass USP CLASS VI Biological Reactivity and Chemical-Physical tests for USP plastics. Specific for "PS" 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).

### QUALITY STANDARDS

Produced under a certified Quality System to guarantee traceability of manufacturing records and integrity testing results.

### OPERATING CONDITIONS

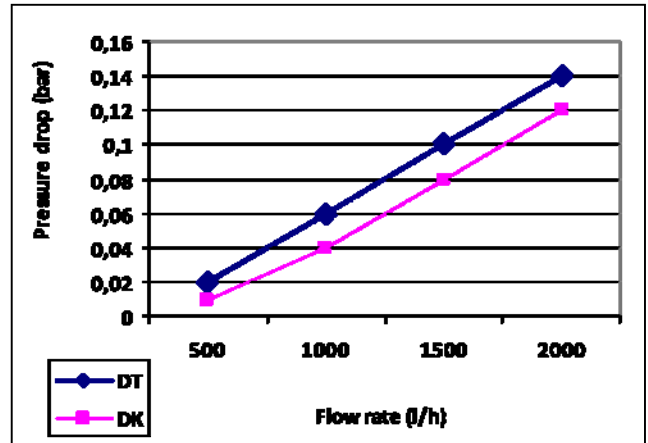
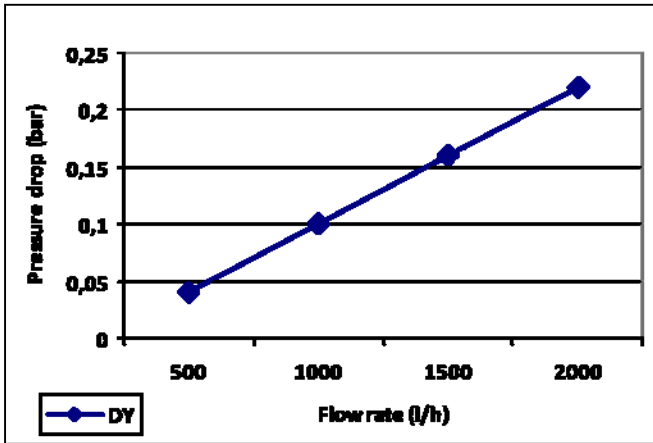
- max. continuous temperature	80 °C
- max. cumulative time of steam sterilization	20 hours at 121 °C / 13 hours at 125 °C / 5 hours at 135 °C
- sanitization with hot water	80 °C max
- sanitization with chemicals	Can be sanitized by standard chemical agents
- max. differential pressure	5,0 bar at 25 °C—2,5 bar 80 °C—0,3 bar 135 °C
- recommended change out differential pressure	2,0 bar at 25 °C
- recommended rinse up volume	3 liters/cartridge 10"

### BACTERIAL RETENTION

	Brevundimonas d.	Serratia m.	Leuconostoc o.	Escherichia c.	Aeromonas h.
<b>RATING CODE DY</b>	≥ 10 <sup>6</sup>	≥ 10 <sup>11</sup>	≥ 10 <sup>11</sup>	≥ 10 <sup>11</sup>	≥ 10 <sup>11</sup>
<b>RATING CODE DT</b>	≥ 10 <sup>3</sup>	≥ 10 <sup>7</sup>	≥ 10 <sup>9</sup>	≥ 10 <sup>7</sup>	≥ 10 <sup>9</sup>
<b>RATING CODE DK</b>	/	≥ 10 <sup>6</sup>	≥ 10 <sup>8</sup>	≥ 10 <sup>6</sup>	/

### INTEGRITY TESTABLE

## WATER FLOW RATE FOR 10" CARTRIDGE



## MICRONYL MLE ORDERING INFORMATION

MLE - 207 1 - DY - BQ - SB -

END FITTING	CODE
DOE: double open end with flat gaskets.	200
SOE: open end with (2) O-Ring 2.226 and 2 bayonet locks. Blind end with fin.	207
SOE: open end with (2) O-Ring 2.222. Blind end with fin.	208
SOE: open end with (2) O-Ring 2.222 and 3 bayonet locks. Blind end with fin.	212

ABSOLUTE FILTRATION RATING micron	CODE
0,2	DY
0,45	DT
0,65	DK

CODE	GASKETS	
No code	Standard	Silicone
E	On request	EPDM
V	On request	VITON
F	On request	FEP

CODE	PACKING TYPE
SB	Single box

CODE	NOMINAL LENGTH
1	10"
2	20"
3	30"
4	40"

CODE	PRODUCT GRADE
BQ	Biological Grade; tested and prefluxed. Quality Certification in the box.
HIA	Product certified Halal BY WHA-IT00172-001

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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