

# LEPP

## [Polypropylene Media – a/n Grade]

- All polypropylene construction
- Do not suffer from hydrolysis in aggressive solutions which would result in the contamination of the process fluid
- Broad chemical and thermal compatibility
- Low extractable and quick rinse-up
- Graded fibre density giving progressively finer particulate retention through the depth of the media, combining an optimised media pleating density gives LEPP cartridges exceptional lifetime performance.
- LEPP A is available in 0.3µm, 0.6µm, 1µm, 5µm and 15µm absolute rated pore sizes (99.99% removal;  $\beta = 10,000$ ).
- LEPP N is available in 0.1µm, 0.2µm, 0.45µm, 1µm and 5µm absolute rated pore sizes (90% removal;  $\beta = 10$ ).
- Manufactured in a cleanroom environment, all series *e* cartridge pre-flushed with 18megaohm UPW water.



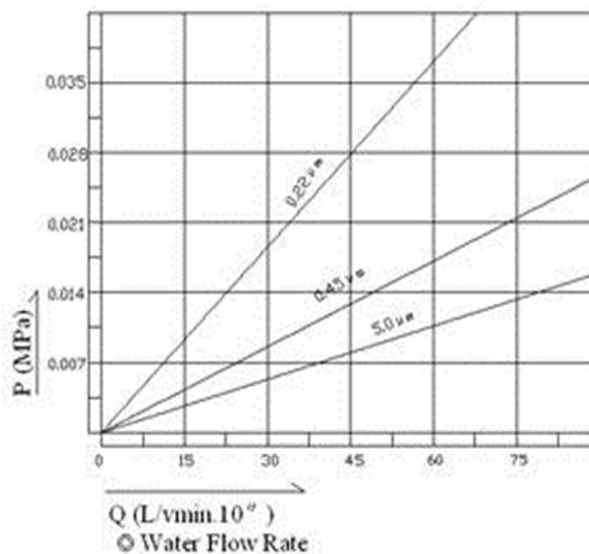
### Applications

#### UHP Water and Process Water

- ☐ Particulate and turbidity reduction
- ☐ Pre-R.O
- ☐ Process Cooling Water

#### Microelectronics

- ☐ Flat Panel Display – all application in wet etching, stripping, developer and cleaning process
- ☐ TFT (thin film transistor) processes and chemistries - wet etching, detergent, DI cleaning, stripper, rework, photoresist coating, thinner, HMDS, DI water and scrubbers
- ☐ Plating Bath – alkaline clean, etching, Nitric dip, Zincate (pre-)
- ☐ Chemical Mechanical Planarization (CMP) – Clarification & Classification
- ☐ Chemical Manufacturing – pre- and final filtration for solvent, photoresist and all pigment chemicals
- ☐ Bulk Photoresists and Solvents
- ☐ Pre-filtration for Clean Dry Air or Gases (i.e. N<sub>2</sub>)



## Product Specifications

### Materials of constructions:

- ✓ Filtration Media : Polypropylene
- ✓ Upstream Support : Polypropylene
- ✓ Downstream Support : Polypropylene
- ✓ Inner Support Core : Polypropylene
- ✓ Outer Protection Sleeve : Polypropylene
- ✓ End Caps : Polypropylene
- ✓ End Cap Insert : 316L Stainless Steel
- ✓ Standard 'O'rings/gaskets : Silicone/EPDM
- ✓ Seal Material: various
- ✓ Sealing Method: thermal welding

### Surface Area (10" cartridge):

- ✓ Minimum  $\geq 0.7 \text{ m}^2$

### Dimension:

- ✓ Outside Diameter: 2.5" (70 mm) [nominal]
- ✓ Lengths: 2-30 in (10-76 cm)

### Recommended Operating Conditions:

- ✓ Temperature: 200°F (93°C)
- ✓ Temperature @ 35 psid: 160°F (71°C)
- ✓ Change Out  $\Delta P$ : 35 psi (2.4 bar)
- ✓  $\Delta P$  @ Ambient 70°F (21°C): 70 psi (4.8 bar)
- ✓  $\Delta P$  @ 200°F (93°C): 20 psi (1.4 bar)
- ✓ Flow Rate: 10 gpm (38 lpm) per 10 in length

## Performance Specifications

### Biological Safety/Product Purity:

- ✓ Meets USP XXI Class VI requirements for plastics.
- ✓ All components FDA listed per CFR, Title 21
- ✓ Non-fiber releasing per FDA Part 210.3B (5) and (6)
- ✓ Non-photo sensitive

Media Code B ratio	Micron Rating at Various Efficiencies				
	>99.99%	99.98%	99.90%	99%	90%
.50	0.60	0.57	0.54	0.32	0.20
1.0	1.00	0.95	0.90	0.70	0.50
1.5	1.50	1.40	1.10	0.80	0.60
003	3.00	2.80	1.80	1.00	0.70
005	5.00	4.70	4.50	3.50	1.00
007	7.00	6.70	6.30	4.50	2.50
010	10.00	8.00	7.00	4.80	2.80
015	15.00	12.00	10.00	7.20	4.50
020	20.00	16.00	14.00	10.00	6.00
025	25.00	20.00	17.00	12.00	7.00

Ordering Information	Micron rating Selections:				Endcaps :			Nominal Length		Seal Material
LEPP-A (Absolute)										
LEPP-N (Nominal)										
	A		0.3/0.1 μm		E – D.O.E			05 – 5”		F – PFA/Viton (e-Grade Standard)
	B		0.6/0.2 μm		A – 222 o’ring/Flat			10 – 10”		S – Silicon
	C		1/0.45μm		B – 222 o’ring/Fin			20 – 20”		V - Viton
	D		5/1μm		C – 226 o’ring/Fin			30 – 30”		E - EPDM
	E		15/5m		D – 226 o’ring/Flat			40 – 40”		



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