



OC Purifier™

PC Dialyzer Series



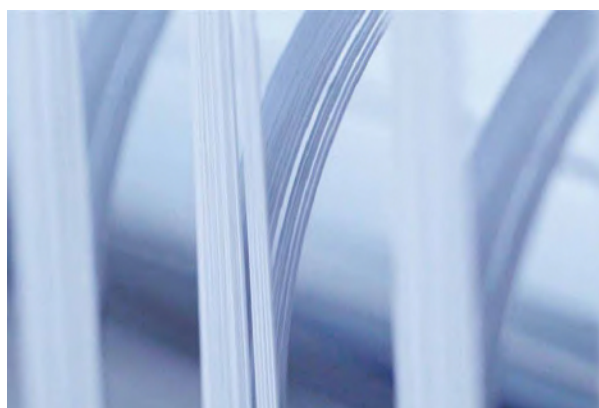
Low Flux Dialyzer

High Flux Dialyzer

Polyethersulfone

HEPL[®]

HepL[®] Polyethersulfone Hollow Fiber Membrane



Enhanced Hydrophilicity



Customized Production Service



Decreased Protein Adsorption

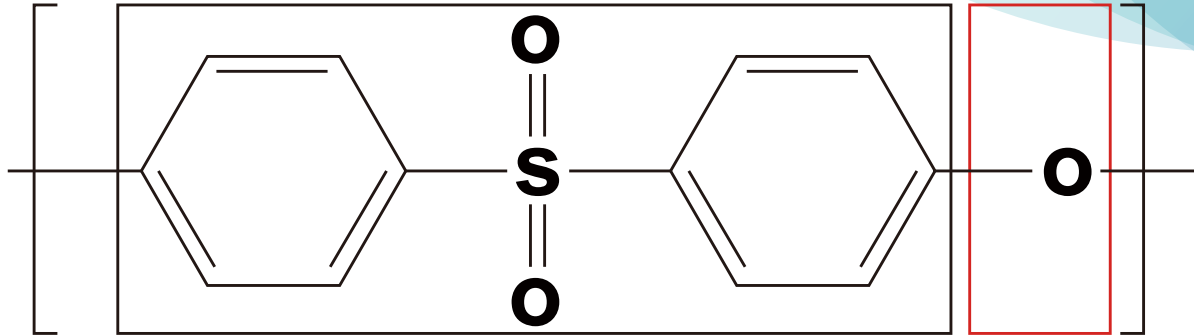


Anti-coagulant

MEMBRANE MATERIAL

★ Membrane material: PES

Better Choice



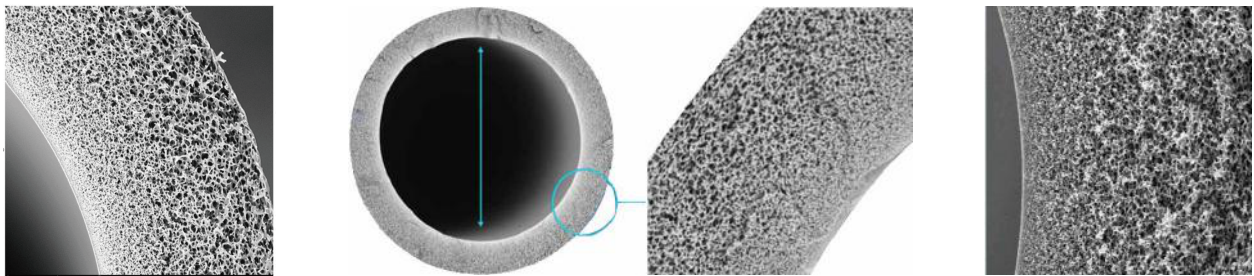
● BPA Free

||| Uniform pore distribution

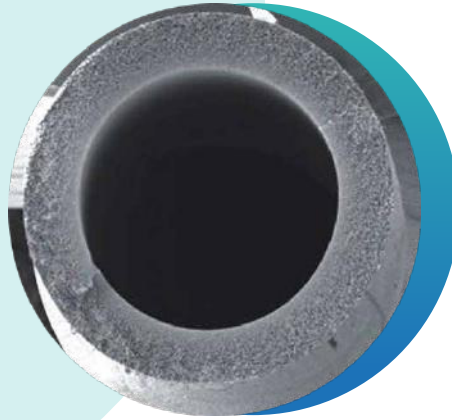
📈 Stable mechanical properties

✅ Excellent biocompatibility

CROSS SECTION OF THE HEPL® MEMBRANE



- Smooth endothelium improves the blood compatibility and biocompatibility of the product;
- Extremely thin endothelium ensures high clearance efficiency;
- Uniform pore size enhances the clearance rate of the medium molecular substances while retaining-endotoxin.



- Specific inner diameter ensures the product's good clearance effect and reduces the probability of coagulation;
- The special design of spongy structure guarantees the maximum pressure of the membrane;
- Specific membrane thickness enabled the product with high ultrafiltration performance and clearance rate, while avoiding the reverse entry of endotoxin from dialysate into human body.



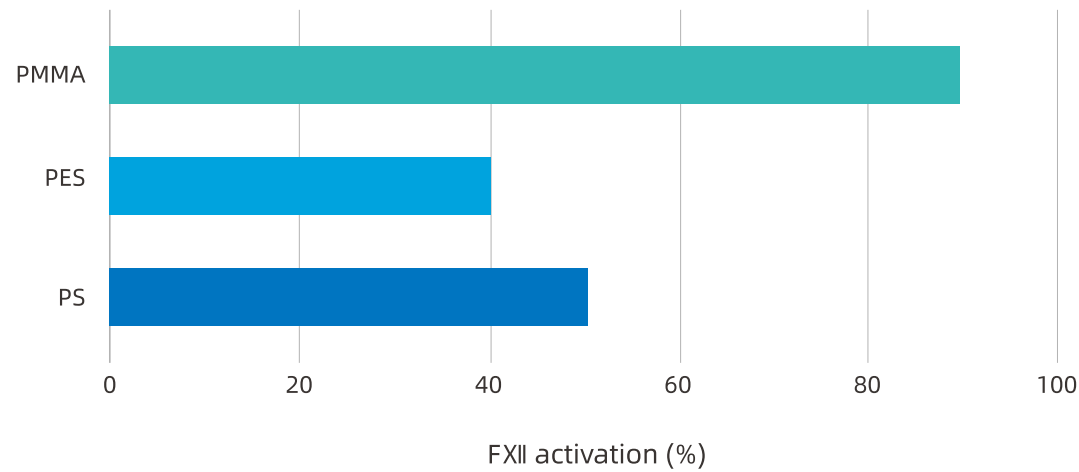
Each optimizing index is the commitment to duty, we contribute our effort and knowledge to the critical equipment, with strict standard in every manufacturing process. From raw material to clinical use, we concern every details, improve performance from the beginning, and do our best to make the right choice for each life and every moment.

GOOD BIOCOMPATIBILITY

In vitro and in vivo experiments show that the polyethersulfone hemodialyzer of OCI has a low probability of coagulation factor activation (FXII activation), and has good biocompatibility.

Reference

The Contact Activation of Factor XII During Plasma Incubation with Blood Purification Materials.
"Journal of Sichuan University (Engineering Science Edition)", 2005.

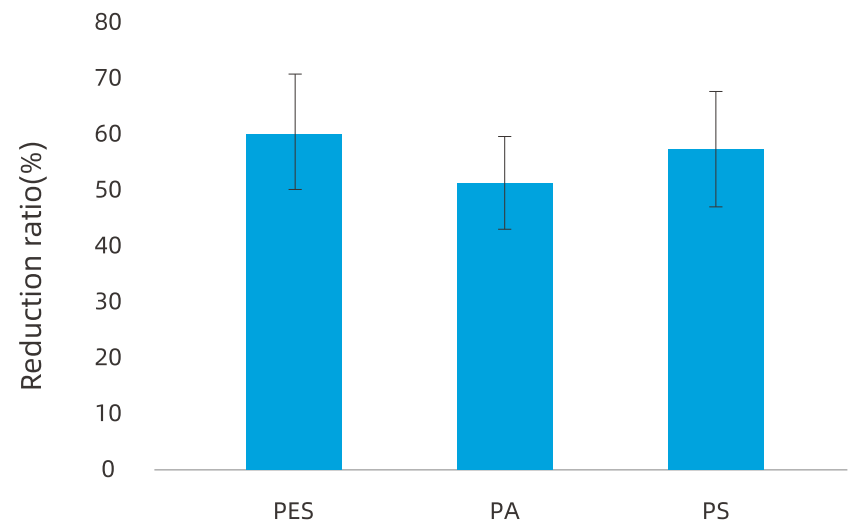


HIGHER CLEARANCE OF β_2 -MG

Effectively clear β_2 -microglobulin, delay dialysis-associated amyloidosis, reduce cardiovascular complications.

Reference

Clinical Evaluation of Polyethersulfone High-flux Hemodialysis Membrane Compared to Other Membranes.
"Journal of Applied Polymer Science", 2012.

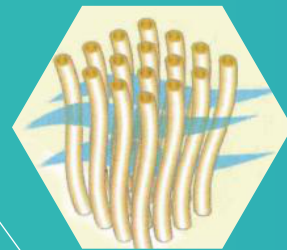


Polyethersulfone Hollow Fiber Hemodialyzer

Optimize the structure and process design to improve
the dynamic performance and safety of dialysis

3D microwave structure

Ensure uniform radial dialysate flow
around each fibre within the bundle

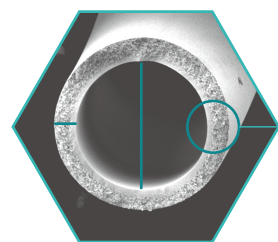


Ultrasonic bonding

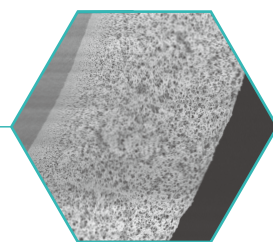
Ultrasonic bonding of the cap,
avoid blood and dialysate leakage

Smooth inlet port

Smooth dialysate inlet port, friendly
for connector of dialysis machine



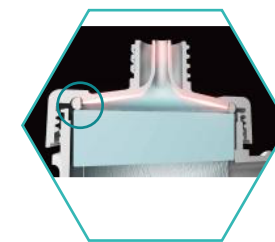
Designed fibre thickness & diameter



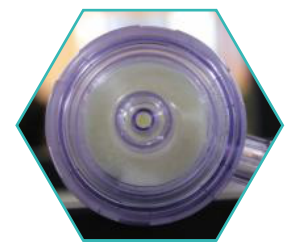
Smooth inner surface



Specific pore diameter



D-shape ring



Transparent cap

DIALYZER

PC series High Flux

Polyethersulfone Hemodialyzer

NMPA CE



Brilliant Biocompatibility



High performance of toxins remove



Enhanced clearance of middle-large molecules



Accurate molecular screening curve



Low albumin loss



High β 2-microglobulin clearance rate

MATERIAL

Membrane material	HepL* Polyethersulfone(PES)
Housing material	Polycarbonate (PC)
Potting compound	Polyurethane (PU)

TECHNICAL SPECIFICATIONS

Model		OCI-HD150			OCI-HD180			OCI-HD200		
Ultrafiltration coefficient (mL/h·mmHg)		47			49			52		
Surface Area (m²)		1.5			1.8			2.0		
Chamber volume		90			105			115		
Clearances (mL/min)	Test conditions	Q _D = 500 (ml/min)								
	Q _B (ml/min)	200	300	400	200	300	400	200	300	400
	Urea	190	264	306	193	272	317	195	282	333
	Creatinine	186	241	269	188	248	279	192	260	300
	Phosphate	183	232	256	186	240	267	189	256	289
	Vitamin B12	152	176	196	157	186	206	160	203	232
	β ₂ -MG	50	/	/	60	/	/	65	/	/
Chamber Pressure (kPa)		≤9	≤13.5	≤18	≤9	≤13.5	≤18	≤9	≤13.5	≤18
Screening coefficient	β ₂ -microglobulin	0.85								
	Inulin	1								
	Myoglobin	0.35								
	Albumin	≤0.01								
Blood flow range (mL/min)		200-400								
Dialysate flow range (mL/min)		500-800								
Maximum TMP (kPa/mmHg)		66.5/500								
Disinfection Method		Irradiation sterilization, Valid for three years								

DIALYZER

PC series Low Flux

Polyethersulfone Hemodialyzer

NMPA CE



Brilliant Biocompatibility



High performance of toxins remove



Enhanced clearance of small molecules



Good clearance rate of the phosphate

MATERIAL

Membrane material	HepL* Polyethersulfone(PES)
Housing material	Polycarbonate (PC)
Potting compound	Polyurethane (PU)

TECHNICAL SPECIFICATIONS

Model		OCI-HD14L			OCI-HD16L			OCI-HD18L			OCI-HD20L		
Ultrafiltration coefficient (mL/h-mmHg)		11			16			17			18		
Surface Area (m2)		1.4			1.6			1.8			2.0		
Chamber volume		90			105			118			130		
	Test conditions	QD = 500 (ml/min)											
	QB (ml/min)	200	300	400	200	300	400	200	300	400	200	300	400
	Urea	180	216	252	183	220	256	188	226	263	192	230	268
Clearances (mL/min)	Creatinine	170	204	221	175	210	227	180	216	234	183	219	237
	Phosphate	160	176	208	163	195	253	167	200	217	172	190	223
	Vitamin B12	80	88	94	91	100	105	102	112	122	113	124	129
Chamber Pressure (kPa)		≤8.5	≤11.5	≤15.5	≤8.5	≤11.5	≤15.5	≤8.5	≤11.5	≤15.5	≤8.5	≤11.5	≤15.5
Blood flow range (mL/min)		200-400											
Dialysate flow range (mL/min)		500-800											
Maximum TMP (kPa/mmHg)		66.5/500											
Disinfection Method		Irradiation sterilization, Valid for three years											



www.diacaresolutions.com



CORPORATE OFFICE :

Unit No. 408, 4th Floor, Eco Star, Vishweshwar Nagar,
Off. Aarey Road, Goregaon (E), Mumbai - 400063.
Tel.: +91-22-45161475 | Email : enquiry@diacaresolutions.com

BRANCH OFFICE :

Office No. 212, Surya Kiran Building, Plot No 19,
Connaught Place, K. G. Marg., New Delhi - 110001.
Mobile : +91-8800908729 | Email : enquiry@diacaresolutions.com

MANUFACTURED BY :

Chengdu OCI Medical Equipment Co. Ltd.
No. 2401, Xihanggang Avenue, Southwest Aviation,
Economic Development Zone, Shaungliu District, Chengdu