



Dialysis Products



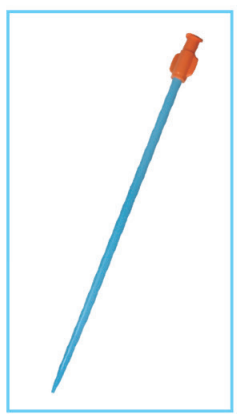


Rotatable Suture Hub
Optimized catheter positioning



Dual-D Lumen

- Higher flow
- Kink resistant



Gradually Varied Dilator O.D.

- Easier entry
- One-step smooth dilation
- O.D. varies from 10F to 12F/12.5F



Product Information Features

- Dual-D lumen
- Single dilator with gradually varied O.D.
- Rotatable suture hub
- Patented connection design
- Flexible polyurethane material
- Latex-free
- Standard/full packages

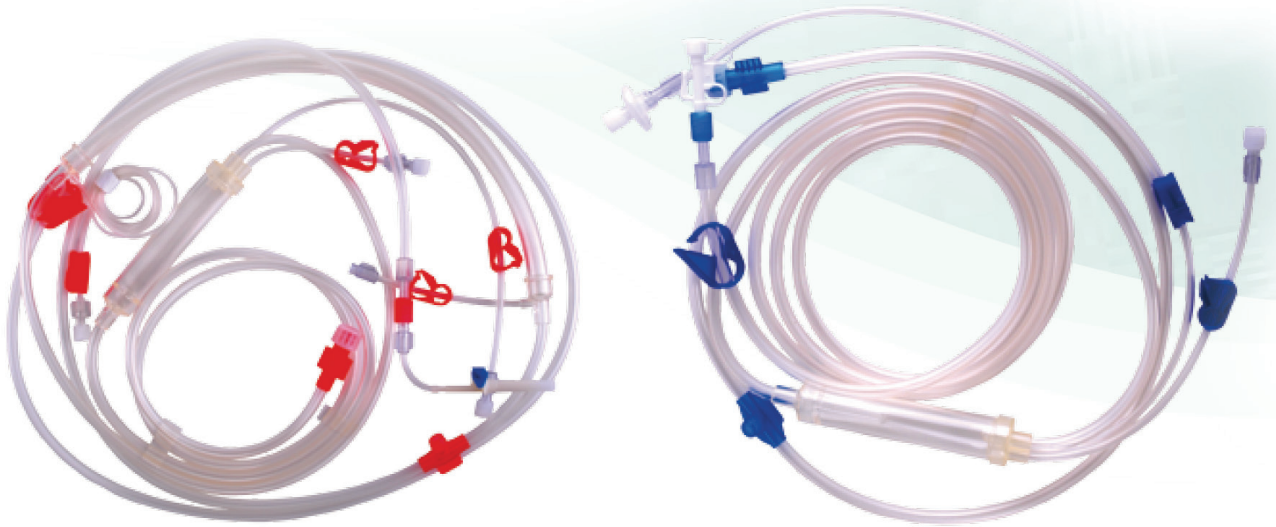
Benefits

- Higher flow
- Easy entry
- Smooth dilation
- Optimized catheter positioning
- Anti-kink
- Anti-bacterial
- Leakage-proof

Ranges

- Straight/curved type
- Double/triple lumen
- 13/16/20cm catheter length

Disposable Bloodlines



Medical grade raw material, high precision extrusion machine
Complete specifications, suitable for each brand (TORAX, BAXTER, BELLCO, GAMBRO, NIKKISO,
BRAUN, FRESenius, ETC.) Blood purification equipment.

Specification

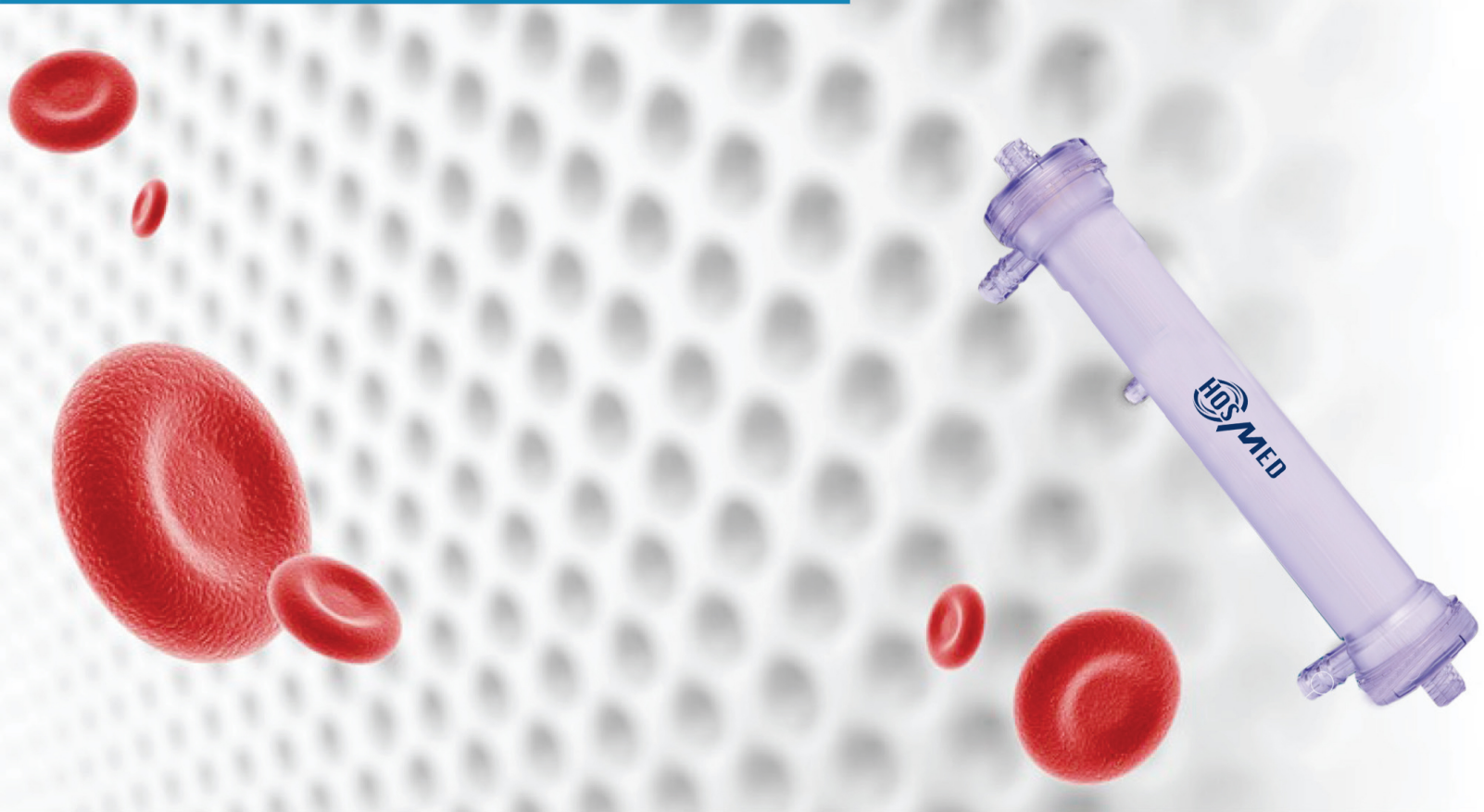
HOSMED-HD-D-A
HOSMED-HD-S-A
HOSMED-HD-D-B
HOSMED-HD-S-B

Note

Double chambers, wide pump tube
Single chamber, wide pump tube
Double chambers narrow pump tube
Single chamber, narrow pump tube



Dialysis Powders



Focusing on Better and Safer Dialyzer

Devoting to Dialysis Health Care



Dialysis Powders





Product characteristics

Safe use: in the process of hemodialysis, when the hemodialysis machine is used at the same time, the bacteria have no chance to grow or decompose. Automatic preparation of concentrated solution by hemodialysis machine to ensure completedissolution, accurate ph and ionconcentration of dialysate

Esafety in Production: All production processes are completed in a 100, 000 class clean workshop

Equality Assurance: High-end inspection equipment, rigorous inspection staff to ensure the quality of-products

Easy to Use: No need for manual preparation, easy to use

Products Presentation:

Name: Sodium Bicarbonate Cartridge

Shape and properties: White crystalline powder or particle

Indication: Product for hemodialysis in patients with renal failure

Specifications: HND-DDBO1:1 one person/bag

Bacterial endotoxin: EU/ml After diluted with water for endotoxin test as dialysis solution, bacterial endotoxin is no more than 0.5eu/ml.

Particulate matter: after dilution to dialysis solution, after deducting the content of particulates after background.

=10mu Particles not more than 25/ml

>25mu Particles not more than 3/ml

Microbial Limit: The total number of aerobic bacteria is not less than 100cfu/ml, and the total number of molds and yeasts is not more than 10cfu/ml. No E. coli can be detected.

Term of Validity: 12 months from the date of production



Product Characteristics

Wide Application:	This product is suitable for all dialysis machines used in hospitals
High Quality Material:	Production of imported raw materials of pharmaceutical grade
Safety in Production:	All production Processes are completed in the one hundred thousand level clean workshop, quality High-end inspection equipment, rigorous inspection staff to
Assurance:	Ensure the quality of products

Products Introduction

Name:	Hemodialysis powder B
Shape and properties:	White crystalline powder or particle
Indication:	Product for hemodialysis in patients with renal failure
Packaging:	One person/bag;ten persons/bag
Bacterial endotoxin:	After dilution with water for endotoxin test as dialysis solution,bacterial endotoxin is not more than 0.5EU/ml
Insoluble microparticles:	After dilution to dialysis solution,after deducting the content of particulates after background >10um particles not more than 25/ml >25 um particles not more than 3/ml
Microbial limit:	The total number of bacteria in proportion to the proportion of the concentrated solution in this product not more than 100CFU/ml,toal number of molds and yeasts not more than 10CFU/ml, escheri chia coli cannot be selected.
Term of validity:	12 months from the date of production



Product characteristics

Safe use: in the process of hemodialysis, when the hemodialysis machine is used at the same time, the bacteria have no chance to grow or decompose. Automatic preparation of concentrated solution by hemodialysis machine to ensure completedissolution, accurate ph and ionconcentration of dialysate

Esafety in Production: All production processes are completed in a 100, 000 class clean workshop

Equality Assurance: High-end inspection equipment, rigorous inspection staff to ensure the quality of-products

Easy to Use: No need for manual preparation, easy to use

Products Presentation:

Name: Sodium Bicarbonate Bag

Shape and properties: White crystalline powder or particle

Indication: Product for hemodialysis in patients with renal failure

Specifications: HND-DDBO1:1 one person/bag

Bacterial endotoxin: After diluted with water for endotoxin test as dialysis solution, bacterial endotoxin is no more than 0.5eu/ml.

Particulate matter: after dilution to dialysis solution, after deducting the content of particulates after background.

=10mu Particles not more than 25/ml

>25mu Particles not more than 3/ml

Microbial Limit: The total number of aerobic bacteria is not less than 100cfu/ml, and the total number of molds and yeasts is not more than 10cfu/ml. No E. coli can be detected.

Term of Validity: 12 months from the date of production



Product Characteristic

Widely used:

High quality raw materials:

Safety in production:

Quality assurance:

This product is suitable for all dialysis machines used in hospitals

Pharmaceutical grade imported raw materials production

All production procedures are completed in 100,000 grade clean workshop

High—end inspection equipment, strict inspection staff to ensure the quality of products

The basic composition and function of Powder A for Medical Dialysis

Sodium: Sodium is the main cation in extracellular fluid and plays an important role in maintaining plasma osmotic pressure and blood volume

Potassium: Potassium regulates the appropriate osmotic pressure in cells, regulating the acid-base balance of body fluids, participate in the metabolism of sugar and protein in cells.

Calcium: calcium maintains the normal permeability of blood vessels , participate in muscle contraction, participate in the blood coagulation process.

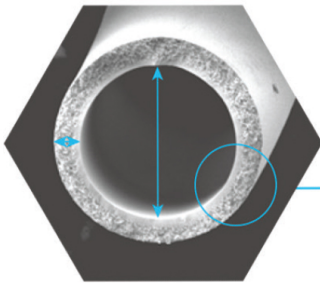
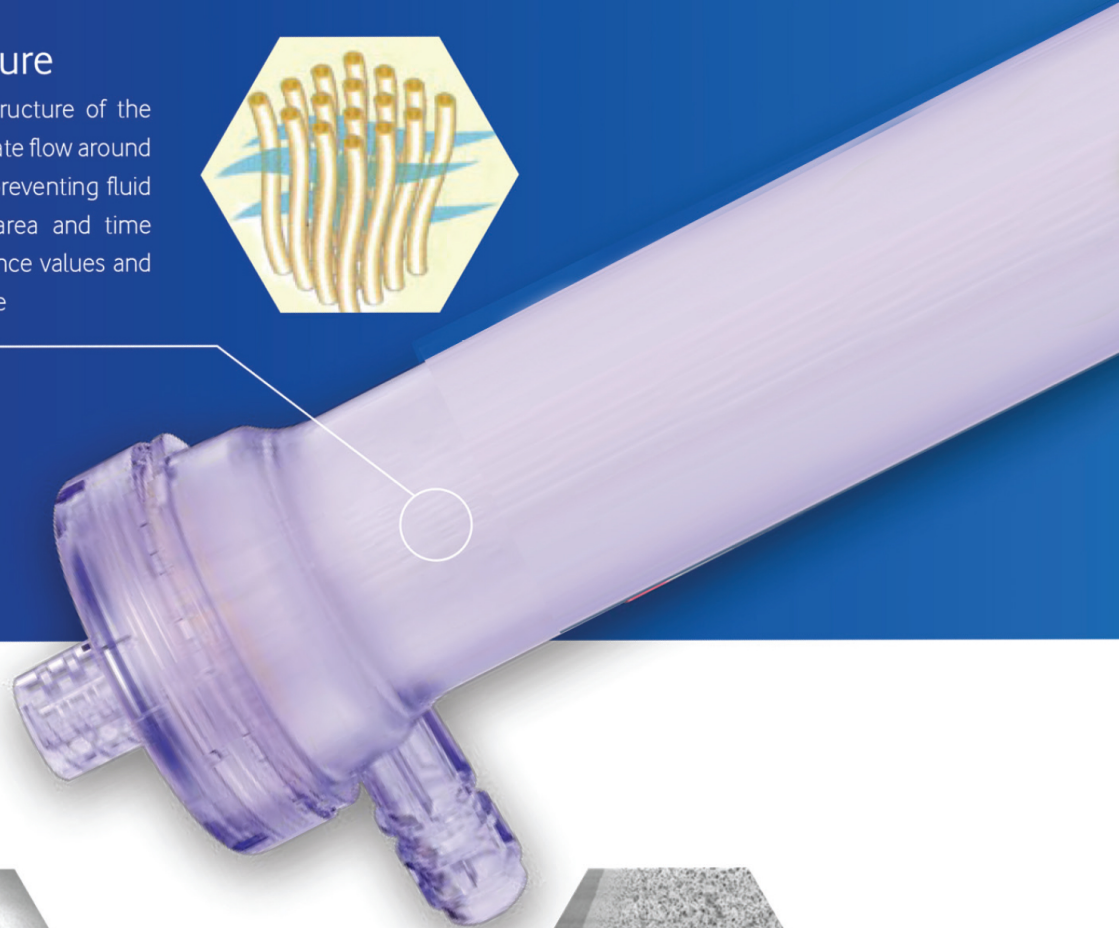
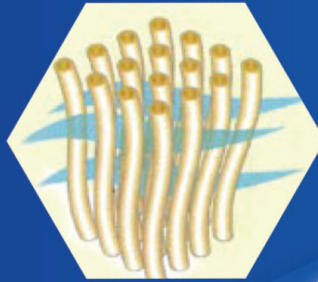
Magnesium: Participation in all anergy metabolism, activation and catalysis of over 300 enzyme systems, including glucose utilization , fat, protein and nucleic acid synthesis , adenosine triphosphate metabolism , membrane ion transport,ect.

Chloroine: The chloride ion in the dialysate is essential the same as the extracellular fluid, determined by the concentration of cations and sodium acetate

Advanced Membrane Design, higher clearance of uremic toxins especially for middle molecules

3D microwave structure

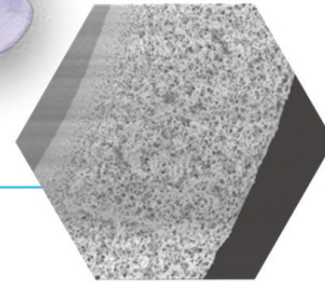
The 3-dimensional microwave structure of the fibre ensures uniform radial dialysate flow around each fibre within the bundle by preventing fluid channeling, increasing contact area and time thereby further enhancing clearance values and improving the overall performance



Designed fibre thickness & diameter

The designed fibre thickness makes high ultrafiltration and clearance

The specific inner fibre diameter ensures a good clearance effect while reducing the probability of blood clotting

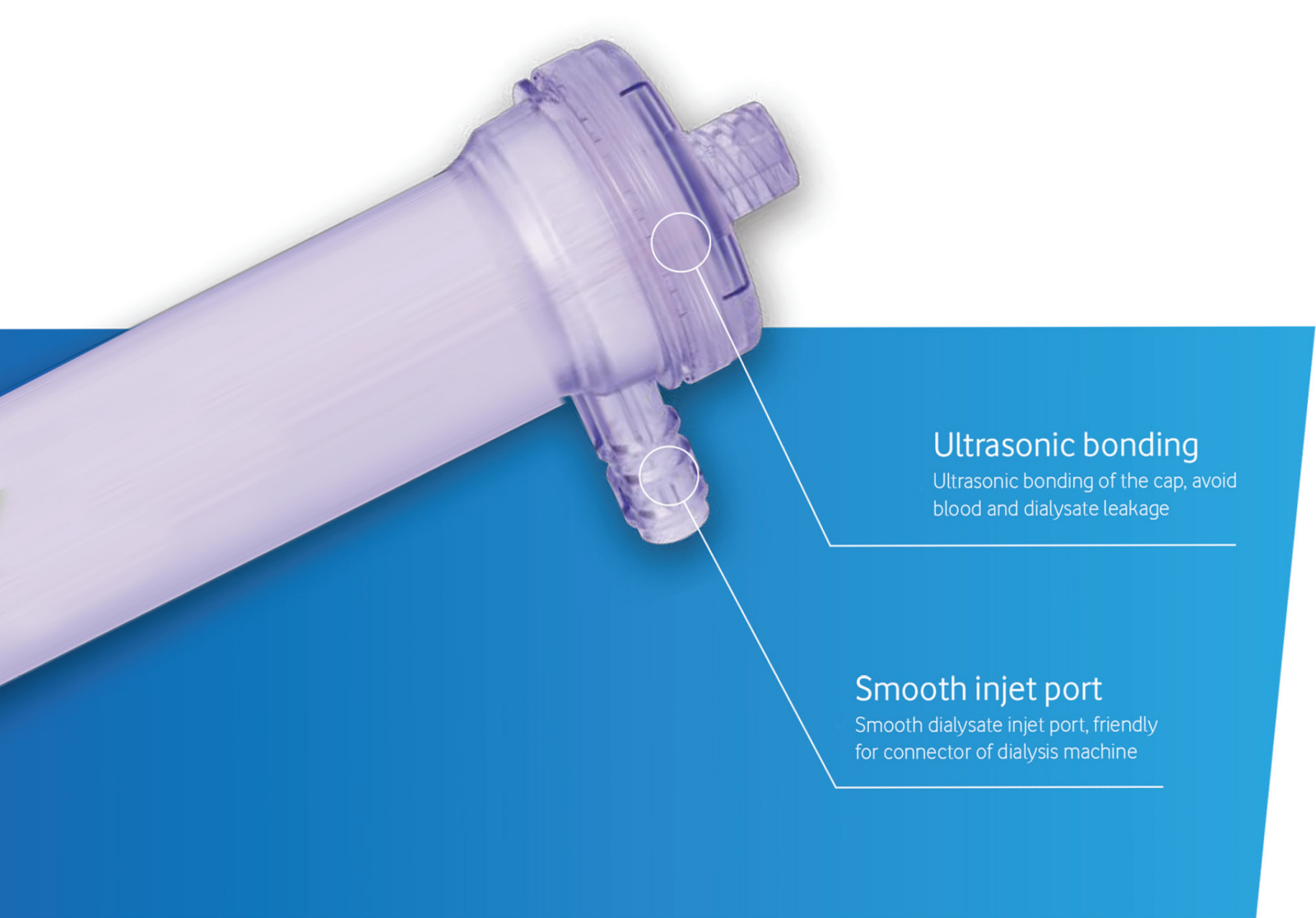


Smooth inner surface

Extremely smooth inner surface improves the blood compatibility as well as biocompatibility

Spongy & porosity support region

The spongy support region, optimizing porosity and therefore also the convective filtration of middle and large uremic toxins such as β_2 -microglobulin

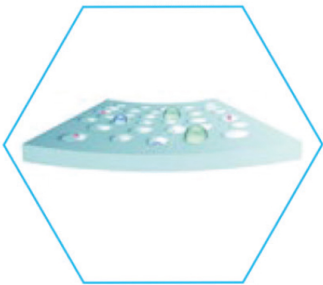


Ultrasonic bonding

Ultrasonic bonding of the cap, avoid blood and dialysate leakage

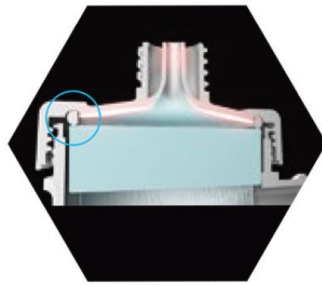
Smooth inlet port

Smooth dialysate inlet port, friendly for connector of dialysis machine



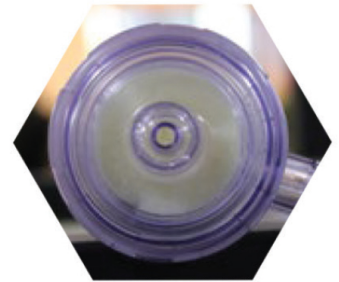
Smooth inner surface

Specific pore diameter
The specific pore diameter in inner surface ensure the removal of broad range of middle molecules as well as of low molecular weight substances, at the same time retent beneficial molecules like albumin



D-shape ring

D-shape ring
The D-shape ring improves the blood shear stress at the edge, and preventing the blood residuals effectively

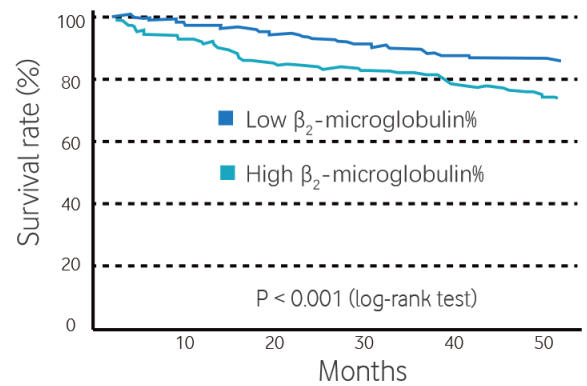
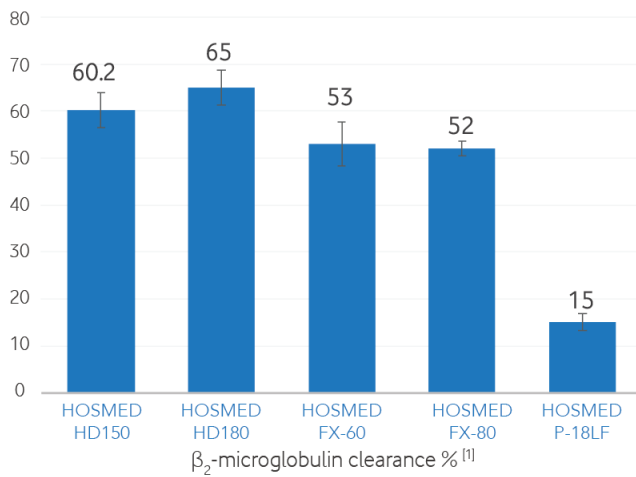


Transparent cap

Transparent cap, clear to see blood residuals after hemodialysis

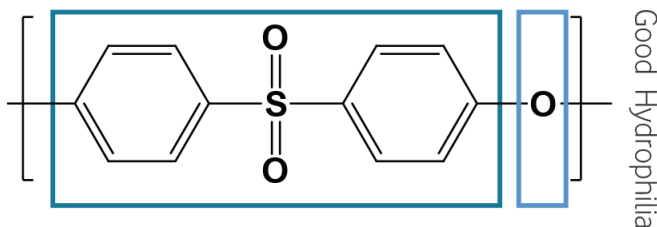
Outstanding middle molecules removal with high-flux dialyzer

- Improve patient survival rates
- Reduce inflammation markers
- Relieve the cutaneous pruritus
- Reduce the risk of developing amyloidosis



High concentrations of β_2 -microglobulin will reduce survival rate.^[2]

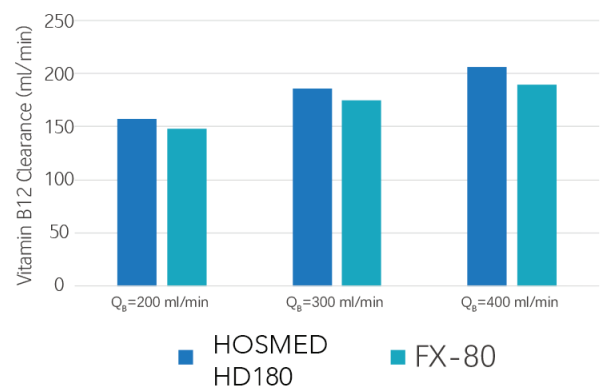
PES-Polyethersulfone



The most stable membrane material

- Better biocompatibility and hydrophilia
- Better physical and chemical properties
- Extremely low complement and albumin activation

HOSMED dialyzer has excellent toxins clearance



Technical Specifications-HD series

Model		HMD-HD150	HMD-HD180	HMD-HD200	HMD-HD14L	HMD-HD16L	HMD-HD18L	HMD-HD20L
Ultrafiltration coefficient (mL/h·mmHg)		47	49	52	11	16	17	18
Surface Area (m ²)		1.5	1.8	2.0	1.4	1.6	1.8	2.0
Membrane material		Polyethersulfone (PES)						
Housing material		Polycarbonate (PC)						
Potting compound		Polyurethane (PU)						
Maximum TMP (kPa/mmHg)		66.5/500						
Clearances (mL/min) Q _B /Q _D (mL/min)								
Urea	200/500	190	193	195	180	183	188	192
	300/500	264	272	282	216	220	226	230
	400/500	306	317	333	252	256	263	268
Creatinine	200/500	186	188	192	170	175	180	183
	300/500	241	248	260	204	210	216	219
	400/500	269	279	300	221	227	234	237
Phosphate	200/500	183	186	189	160	163	167	172
	300/500	232	240	256	176	195	200	190
	400/500	256	267	289	208	253	217	223
Vitamin B ₁₂	200/500	152	157	160	80	91	102	113
	300/500	176	186	203	88	100	112	124
	400/500	196	206	232	94	105	122	129
Blood flow range (mL/min)		200~400						
Dialysate flow range (mL/min)		500~800						
Priming volume (mL)		105	120	136	90	105	118	130
Sieving coefficients	β ₂ -microglobulin	0.85						
	Inulin	1						
	Myoglobin	0.35						
	Albumin	≤0.01						

In vitro performance: T=37°C

Ultrafiltration coefficients: anticoagulant bovine plasma, protein content 60±5g/L, QB=400mL/min

In vitro results are likely to differ from in vivo results

The performance might change with the duration of observation

Technical Specifications-HDF series

Model	HMD-HD160			HMD-HD170			HMD-HD180			HMD-HD200		
Ultrafiltration coefficient (mL/h·mmHg)	71			72			73			80		
Surface Area (m ²)	1.6			1.7			1.8			2.0		
Priming volume (mL)	100			107			112			123		
Membrane material	Polyethersulfone (PES)											
Housing Material	Polypropylene (PP)											
Potting compound	Polyurethane (PU)											
Maximum TMP (kPa/mmHg)	66.5/500											
Clearances (mL/min)	Q _b =500 ml/min, Q _f =50 ml/min											
Q _b (mL/min)	200	300	400	200	300	400	200	300	400	200	300	400
Urea	197	280	330	198	282	335	198	285	340	199	288	345
Creatinine	195	262	310	195	266	316	196	269	320	197	273	330
Phosphate	185	245	281	187	250	291	189	255	296	192	260	308
Vitamin B ₁₂	152	183	201	156	189	210	159	194	215	164	202	223
β ₂ -microglobulin	65	/	/	67	/	/	70	/	/	75	/	/
Blood flow range (mL/min)	200~400											
Dialysate flow range (mL/min)	500~800											
Sieving coefficients	Inulin			1								
	Myoglobin			0.4								
	Albumin			≤0.01								

In vitro performance: T=37°C

Ultrafiltration coefficients: anticoagulant bovine plasma, protein content 60±5g/L

In vitro results are likely to differ from in vivo results

The performance might change with the duration of observation



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