

# >> High Flux Series

Hollow Fiber Dialyzer



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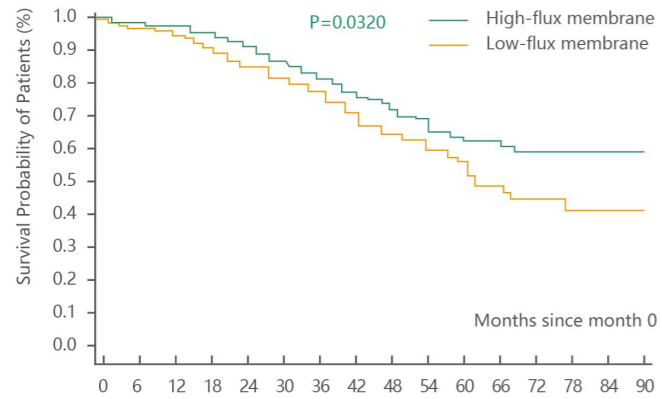
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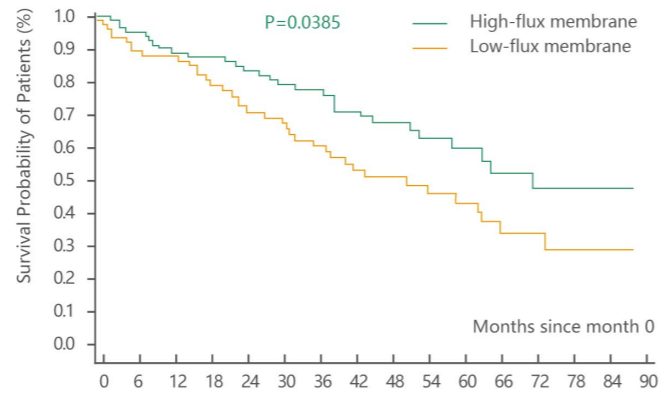
## Product Feature

### 1 High-Flux dialysis membranes improve the patients' survival probability

- European multi-center MPO study shows that high-flux dialysis membranes can significantly improve patients' survival probability with a serum albumin levels  $\leq 4\text{g/dL}$ .

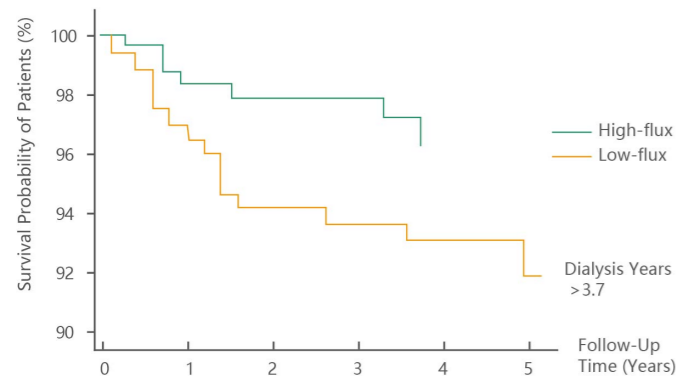


- High-Flux dialysis membranes improve the patients' survival probability with diabetic nephropathy.



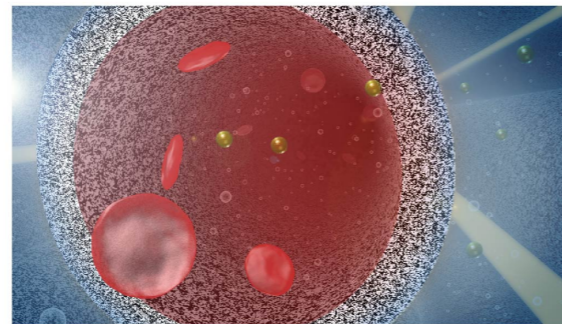
### 2 High-Flux dialysis membranes improve the patients' prognosis

The results of famous HEMO study reveals that the all-cause mortality risk of high-flux dialysis membranes for the patients with dialysis duration over 3.7 years is 0.68, which has decreased to 32%.



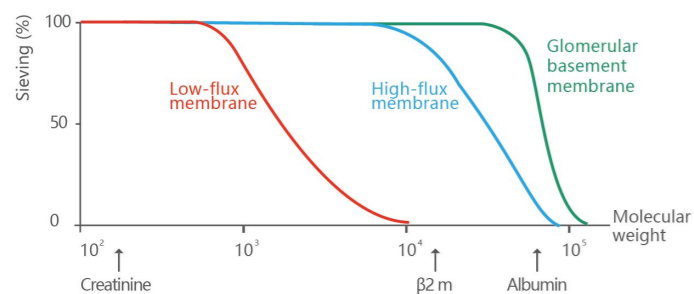
### 3 High efficiency in removal of critical uremic toxins

High clearance of the middle molecular for better patient treatment outcomes.



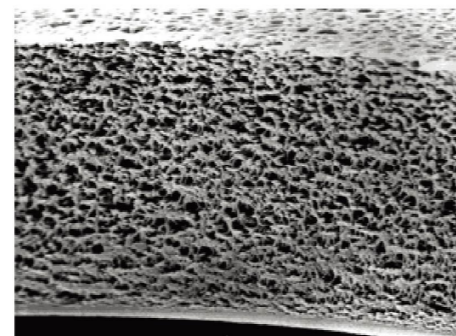
### 4 Reasonable Sieving coefficient distribution

Excellent fiber control technology, the product screening coefficient curve close to the filtration level of glomerular basement membrane.



### 5 Better removal of endotoxins

The material of polysulfone fiber allows better removal of endotoxins.



## Technical Specification

Test conditions:  
 Clearance in vitro: QD=500mL/min; QF=0mL/min; T=37°C  
 UF coefficient: Bovine plasma, QB=300mL/min; protein content: 60±5g/L; TMP=100mmHg  
 KoA (Qb=300mL/min)  
 Note: Products of this series have high performance of ultrafiltration and permeability.  
 Please use only with dialysis equipment with ultrafiltration control function.

| IN VITRO PERFORMANCE                      | HF10         | HF12 | HF14 | HF15 | HF18 | HF19 | HF20 | HF21 | HF22 | HF23 |
|---|--------------|------|------|------|------|------|------|------|------|------|
| Ultrafiltration coefficient (mL/h • mmHg) | 34           | 42   | 49   | 52   | 63   | 67   | 69   | 73   | 78   | 84   |
| Clearance (Q <sub>B</sub> =200ml/min)     |              |      |      |      |      |      |      |      |      |      |
| Urea                                      | 189          | 191  | 193  | 194  | 197  | 198  | 199  | 200  | 200  | 200  |
| Creatinine                                | 183          | 184  | 186  | 188  | 194  | 195  | 196  | 198  | 198  | 198  |
| Phosphate                                 | 181          | 183  | 188  | 189  | 192  | 192  | 193  | 193  | 197  | 198  |
| Vitamin B <sub>12</sub>                   | 113          | 123  | 133  | 137  | 151  | 156  | 161  | 167  | 172  | 178  |
| Clearance (QB=300ml/min)                  |              |      |      |      |      |      |      |      |      |      |
| Urea                                      | 255          | 266  | 277  | 278  | 284  | 286  | 287  | 288  | 289  | 291  |
| Creatinine                                | 225          | 235  | 248  | 255  | 270  | 272  | 275  | 278  | 280  | 281  |
| Phosphate                                 | 202          | 218  | 235  | 244  | 266  | 270  | 273  | 275  | 276  | 278  |
| Vitamin B <sub>12</sub>                   | 121          | 134  | 147  | 154  | 173  | 180  | 189  | 198  | 206  | 209  |
| Clearance (QB=400ml/min)                  |              |      |      |      |      |      |      |      |      |      |
| Urea                                      | 267          | 286  | 304  | 313  | 341  | 349  | 352  | 355  | 360  | 365  |
| Creatinine                                | 243          | 255  | 272  | 281  | 308  | 316  | 321  | 325  | 330  | 334  |
| Phosphate                                 | 228          | 247  | 266  | 275  | 302  | 306  | 310  | 315  | 316  | 322  |
| Vitamin B <sub>12</sub>                   | 132          | 145  | 158  | 165  | 184  | 191  | 202  | 211  | 220  | 228  |
| Sieving coefficient                       |              |      |      |      |      |      |      |      |      |      |
| β2-MG                                     | 0.8          |      |      |      |      |      |      |      | 0.85 |      |
| Myohemoglobin                             | 0.35         |      |      |      |      |      |      |      |      |      |
| Inluin                                    | 0.95         |      |      |      |      |      |      |      |      |      |
| Albumin                                   | ≤0.03        |      |      |      |      |      |      |      |      |      |
| KoA urea (mL/min)                         | 888          | 1064 | 1321 | 1351 | 1569 | 1662 | 1714 | 1770 | 1832 | 1976 |
| Surface (m <sup>2</sup> )                 | 1.0          | 1.2  | 1.4  | 1.5  | 1.8  | 1.9  | 2.0  | 2.1  | 2.2  | 2.3  |
| Priming volume (mL) bloodside             | 55           | 63   | 74   | 75   | 92   | 95   | 113  | 116  | 119  | 121  |
| Wall thickness/ Internal diameter (μm)    | 40/200       |      |      |      |      |      |      |      |      |      |
| Membrane material                         | Polysulfone  |      |      |      |      |      |      |      |      |      |
| Sterilization                             | Radiation    |      |      |      |      |      |      |      |      |      |
| Units per box                             | 24pcs/carton |      |      |      |      |      |      |      |      |      |

## High-Flux Dialysis Structure

