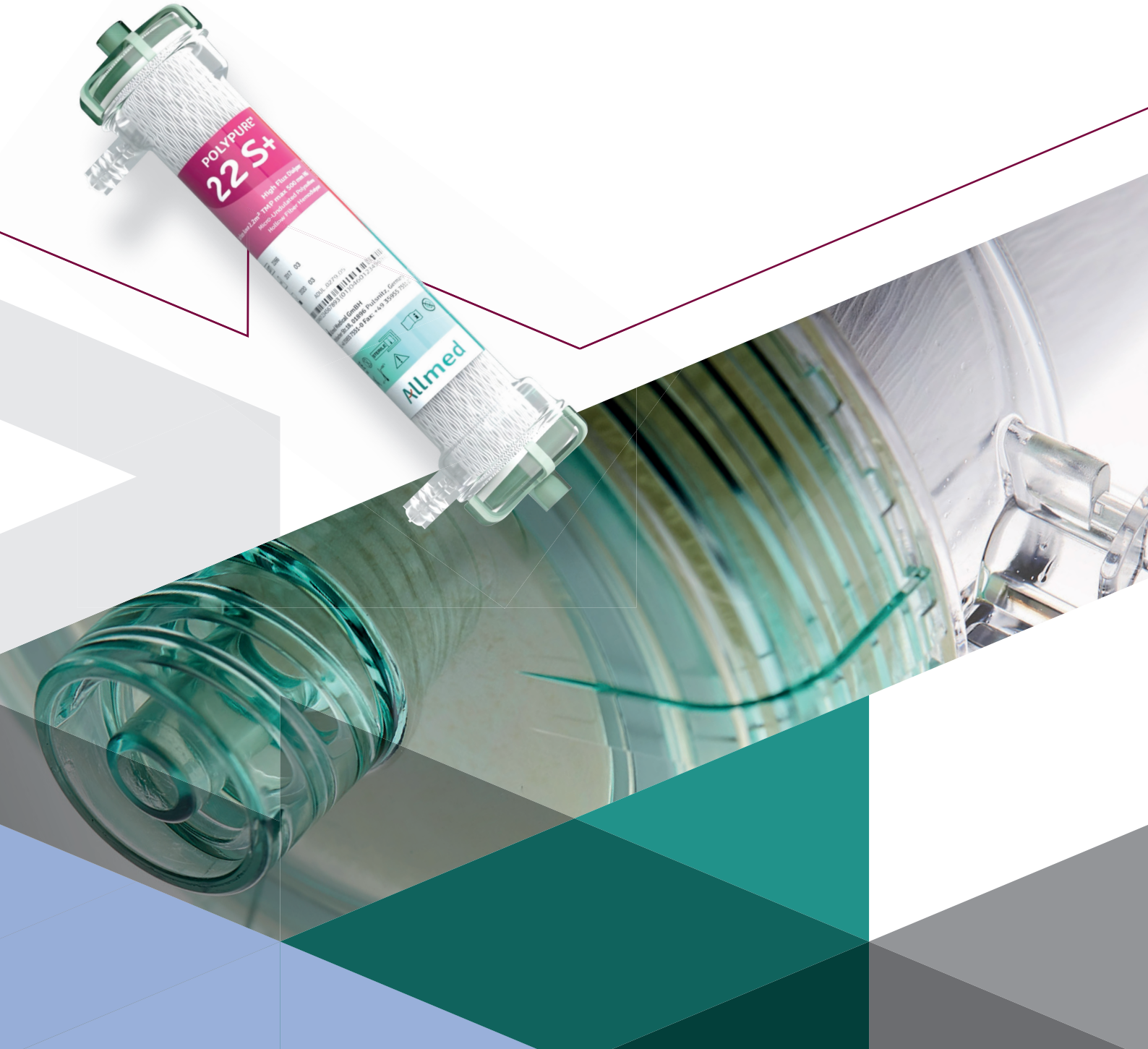
KIMAL | Allmed

POLYPURE® S+

High Flux Series



POLYPURE® S+

Allmed's high flux dialyser, superbly balancing middle molecule removal, optimal albumin retention, whilst offering excellent levels of endotoxin protection consistent with POLYPURE® membranes. All feature the additional advantages of autoclaved steam sterilisation.

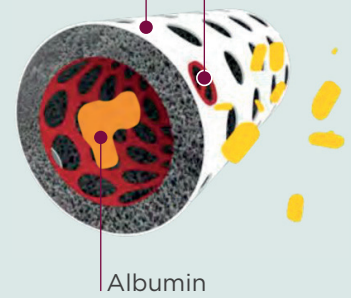
Steam sterilisation in autoclave: best for patients & the environment

- No potentially dangerous substances are generated during autoclaved steam sterilisation
- Lower priming volume requirements compared to other sterilisation methods for the same product (see DFU)
- Optimised rheology during clinical use
- Autoclave steam sterilisation is the only steam sterilisation recognised by The International Pharmacopeia (Methods of Sterilisation–VI Edition)
- Less impact on the environment compared with irradiation and ethylene oxide

Excellent balance between middle molecule removal and albumin retention: safeguarding the patient nutritional status

The membrane structure perfects the delicate balance between substantial middle molecule removal whilst preserving levels of albumin. POLYPURE® S+ removes 85% of ß2 microglobulin with only 0.6g of albumin loss, during a session of post dilution HDF.

PROTECTION FROM PYROGENS



ALBUMIN RETENTION

REDUCED INFLAMMATION

PROTECT NUTRITIONAL STATUS

BEST IN DIALYSIS THERAPY

Internal diameter
200 µm

Wall thickness
40 µm

Membrane material
Micro-undulated polysulfone

Housing material
Polycarbonate

Potting material
Polyurethane

Sterilisation
Steam

Micro-undulated technology: highest efficacy

Micro-undulation technology ensures the highest efficiency and clearances thanks to “bundles” and “dead-zones” prevention, together with the optimally increased surface exchange of blood-membrane-dialysate.

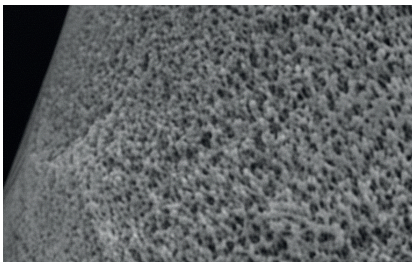
MICRO-UNDULATED TECHNOLOGY

Protection from endotoxins: reduced inflammation

POLYPURE® asymmetrical membrane with an optimised micro-undulated fibre structure and 40µm thickness, enhances the membrane’s ability to prevent endotoxins transfer due to its geometrical and adsorptive capacity capability.

Systemic inflammation is well recognised to be associated with an increased cardiovascular disease risk in patients with chronic renal disease. Exposure to endotoxins results in a release of a wide variety of pro-inflammatory cytokines, with subsequent chronic systemic inflammation and a broad range of negative cardiovascular effects. Chronic inflammation can also modify the process of erythropoiesis and probably induces resistance to erythropoietin.

Allmed Laboratories–Electron Microscopy
Image of Allmed membrane



IGMHS 20080220rdc x 5000 10µm

ASYMMETRIC MEMBRANE

	POLYPURE® S+	10 S+	13 S+	14 S+	16 S+	18 S+	20 S+	22 S+
Q_B= 200 ml/min	Urea	185	191	192	193	194	196	197
	Creatinine	170	178	180	183	187	189	191
	Phosphate	158	172	176	178	183	186	188
	Vitamin B12	108	126	133	136	145	148	153
	Inulin	74	89	93	97	109	115	121
Q_B= 300 ml/min	Urea	241	258	261	264	270	275	279
	Creatinine	207	225	231	234	245	250	256
	Phosphate	191	211	219	225	236	241	247
	Vitamin B12	121	144	152	157	170	175	183
	Inulin	80	98	103	110	121	129	137
Q_B= 400ml/min	Urea	275	299	303	310	319	328	335
	Creatinine	231	254	261	267	281	289	298
	Phosphate	211	237	243	254	270	278	287
	Vitamin B12	129	155	163	170	186	191	201
	Inulin	84	103	108	115	129	136	145
Clearance in vitro (ml/min)								
QD = 500 ml/min	Surface area (m2)	1.0	1.3	1.4	1.6	1.8	2.0	2.2
QF = 0 ml/min	UF coefficient (ml/hr*mmHg)	32	43	47	53	58	66	74
T = 37°C	Blood priming Volume (ml)	59	69	75	86	105	109	115
Max TMP = 500mmHg		▼	▼	▼	▼	▼	▼	▼
Sieving coefficient	Vitamin B12	1.0						
	Inulin	1.0						
	ß2 microglobulin	0.85						
	Albumin	< 0.001						

- Performance data was measured in vitro according to standard ISO 8637
- UF measurement: using bovine/human blood (Hct 32%;protein 60g/l)
- Typical values obtained with an individual batch of fibres, clinical use may illustrate a difference in results in relation to different Ultrafiltration/measuring techniques and possible variation between batches of fibres

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Scan the QR code to learn more

www.kimal.com

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