

fumasep® FAB

General

The membrane type fumasep FAB is an ion-exchange membrane with excellent chemical and mechanical stability and good permselectivity properties with low H⁺-transport. Membranes are intended for use in bipolar electro dialysis as separator between feed and acid chamber. Due to the application of chemically inert fabric materials the membrane is extremely acid-resistant.

Membranes are identified by membrane type and identification number (Lot.-Number). Please refer to this type and identification number in case of queries.

Handling

Handle with care, be sure not to puncture, crease or scratch the membrane, otherwise leaks will occur. All surfaces which may get into contact with the membrane during inspection, storage, pretreatment and mounting must be free of sharp edges or angles.

To control and minimise wrinkling it is recommended to expand membranes before cutting and module assembly by equilibration in the process solution for sufficient time.

After pretreatment do not let the membrane dry out since micro cracks may likely occur during shrinkage. We recommend to expand the membrane in the process solution before cutting and stack assembly.

Storage

Storage for short and medium time scale (hours up to several days) may be done in unsealed containers in 3-5 wt-% NaCl solution or comparable neutral pH electrolytes. For storage over a longer time period a sealed container is recommended using afore said electrolyte with ca. 100 ppm biocide (NaN₃) to avoid biological fouling.

If you have any concerns about storage, chemical stability and pretreatment before proceeding, please feel free to contact us for further information.



Technical Data Sheet - fumasep FAB

Physical and chemical data

		fumasep FAB, anion exchange membrane, PEEK reinforced
selectivity **)	%	>0,96**), low proton transport
electric resistance *)	$\Omega \cdot \text{cm}^2$	< 1*)
stability	pH	0-13
thickness ***)	mm	0,10 –0, 13
specific conductance	mS/cm	>6 *)
ion exchange capacity	meq/g	>1,3

*) measured in Cl⁻ form in 0,5 M NaCl @ RT 25°C

**) determined from membrane potential measurement in a concentration cell 0,1/0,5 M KCl @ 25°C

***) in wet form

Please note: The measuring data are not measured directly on the item supplied. The data correspond with the measurement of our quality control.

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