

fumasep® FAP

General

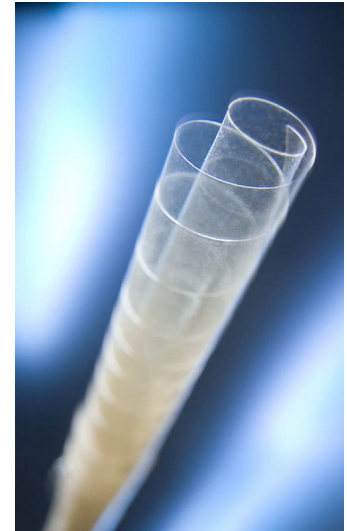
The membrane type fumasep FAP is an ion exchange membrane with excellent chemical and mechanical stability and good permselectivity properties, resistant against chlorine intended for use in electrodialysis and electrolysis.

fumasep FAP membranes are available as non-reinforced films and also with fabric polyetherketone reinforcement for more mechanical stability.

Note! At pH values > 6 the material has almost no ion conductivity !

This is no material defect or malfunction, nor does the membrane suffer from pH-values higher than 6. As soon as the membrane is brought back in an acidic electrolyte, the normal conductivity will be observed again.

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



Delivery and Handling

Membranes are delivered in dry form, normally on a PET-cover foil. fumasep FAP membranes should be released carefully from PET-foil.

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.

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 FAP

Physical and chemical data

| | | anion exchange membrane fumasep FAP plain film | anion exchange membrane fumasep FAP PEEK reinforced |
|------------------------|----------------------------|---|---|
| selectivity **) | % | >0,92**) | >0,92**) |
| electric resistance *) | $\Omega \cdot \text{cm}^2$ | <1*) | <1,5*) |
| stability | pH | 1-6 | 1-6 |
| | | recommended working area pH 1-4 | recommended working area pH 1-4 |
| thickness ***) | (mm) | 0,06 –0, 07 | 0,09 –0, 10 |
| specific conductance | (mS/cm) | >6 *) | >8*) |

*) measured in Cl- form in 0,5 M NaCl @ RT 25°C; pH 3

***) determined from membrane potential measurement in a concentration cell 0,1/0,5 M KCl @ 25°C; pH 3

****) in dry 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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