

fumion® FF/fumion® F

General

The polymer type fumion FF-1000 and fumion FF-1100 are perfluorinated precursor resins in the SO₂F-form, intended for processing operations in hot extrusion. In the SO₂F-form these materials show no ion exchange properties. Refer to pretreatment and conditioning instructions to convert the polymer into a cation exchange resin.

The polymer types fumion F-820/900/1000/1100 are perfluorinated resins in the SO₃H- form. The acid form of fumion polymers shows cation exchange properties. These materials are extremely hydrophilic and adsorb water and organic solvents as well.

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



Handling

Before handling and processing the Material Safety Data Sheet should be noted.

Pretreatment and Conditioning

To obtain cation-exchange properties it is necessary to pretreat fumion FF (SO₂F-form) according to the following prescription:

Put the resin in a solution of 10 % KOH/45% EtOH/45% demineralised water solution for at least 3 h at 80°C.

Afterwards the resin must be washed with demineralised water for 1 h until remaining KOH is removed.

The resin in K⁺ form can be converted in H⁺ form with 15% H₂SO₄. Please repeat this step at least twice and rinse with demineralised water after each treatment. The resin is now in the SO₃-H form.

FuMA-Tech GmbH
-Membranherstellung und Entwicklung-
Am Grubenstollen 11
D-66386 St. Ingbert/Saar
Telephon: +49-(0)-6894-9265-0
Fax: +49-(0)-6894-9265-99
e-mail: info@fumatech.de