



Nafion™ N424

Ion Exchange Materials

Product Information

Nafion™ N424 is a perfluorosulfonic acid cation exchange membrane, combining outstanding chemical resistance with a strong polytetrafluoroethylene (PTFE) fiber reinforcement. It may be used for chloralkali production and a variety of electrolytic processes.

Performance

Laboratory Cell (45 cm² active area)*

Membrane Type	Cell Voltage, V	Current Efficiency, %	NaOH, %
Nafion™ N424	3.74	97	2

*Conditions: 3 mm gap, DSA anode, activated nickel cathode, 90 °C (194 °F)

Form

Nafion™ N424 is shipped in the DRY H⁺ form. DRY H⁺ membranes require simple pretreatment in alkaline water. Refer to technical bulletin T-08, "Nafion™ Hydrogen-Form Membrane Expansion," for DRY H⁺ membrane pretreatment.

To ensure optimum performance of Nafion™ N424 in a commercial electrolyzer, please contact your representative for details.

Note: The smoother side is marked CATH for convenience. It is usually installed toward the cathode.

Size and Packaging

Nafion™ membranes are available in custom sizes with widths up to 1.29 meters and lengths up to 2.5 meters. Nafion™ N424 membrane is shipped dry. Small sheets are sealed in pouches and shipped flat in wooden containers. Large sheets are rolled on polyethylene-covered fiberboard or plastic tubes, overwrapped with polyethylene sheeting, and shipped in a plastic container.

Order Information

The size availability of this product may vary; please contact your local representative for Nafion™.

The data listed here fall within the normal range of product properties, but they should not be used to establish specification limits nor used alone as the basis of design. This information is based on technical data that Chemours believes to be reliable. It is intended for use by persons having technical skill and at their own discretion and risk. This information is given with the understanding that those using it will satisfy themselves that their particular conditions of use present no health or safety hazards. Because conditions of product use are outside our control, Chemours makes no warranties, express or implied, and assumes no obligation or liability in connection with any use of this information or for results obtained in reliance thereon. The disclosure of the information is not a license to operate under or a recommendation to infringe any patent of Chemours or others.

Medical Statement: Please contact your Chemours representative to discuss limitations regarding medical applications.

For more information about Nafion™, contact:

The Chemours Company FC, LLC, Global Customer Service for IXM, 22828 NC Highway 87 W, Fayetteville, NC 28306, U.S.A

Telephone U.S.A.: (800) 283-2493 Fax: (302) 861-3736 Email: customerservice.nafion@chemours.com Web: chemours.com/Nafion

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C-10590 (1/16)