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

<table>
<thead>
<tr>
<th>Membrane Type</th>
<th>Cell Voltage, V</th>
<th>Current Efficiency, %</th>
<th>NaOH, %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nafion® N424</td>
<td>3.74</td>
<td>97</td>
<td>2</td>
</tr>
</tbody>
</table>

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

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.

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.

For more information about Nafion®, contact:
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