



# Nafion™ N2030

## Ion Exchange Materials

## Product Information

Nafion™ N2030 is the long-term leader of the high performance family of membranes offered by Chemours. Introduced in mid-2004, it uses the same proven polymers as Nafion™ N982, while exhibiting significantly lower voltage. Nafion™ N2030 shares the same reinforcement as Nafion™ N982, ensuring safe and reliable operation. Nafion™ N2030 is a high performance membrane for narrow and zero gap electrolyzers in the production of chlorine and 30–35% caustic soda.

- Reinforced for safe operation
- Modified on both the anode and cathode surface to enhance gas release
- Supplied in WX, PW, and TX forms

### Performance

Membrane Type	Laboratory Cell		Tensile Strength, kgf/cm
	Cell Voltage, V	Current Efficiency, %	
Nafion™ N2030	<3.10 <sup>a</sup> <3.02 <sup>b</sup>	>96	>4
Nafion™ N982	<3.15 <sup>a</sup>	>96	>4

<sup>a</sup> Conditions: Zero gap, 0.0045 m<sup>2</sup>, DSA anode, activated nickel cathode, 32% NaOH, 200 g/L anolyte, 90 °C (194 °F), 4.0 kA/m<sup>2</sup>

<sup>b</sup> Conditions: Zero gap, 0.0100 m<sup>2</sup>, activated anode, activated cathode, 32% NaOH, 200 g/L anolyte, 90 °C (194 °F), 6.0 kA/m<sup>2</sup>

### Form

Nafion™ N2030 is provided in the Na<sup>+</sup> form, but also available in K<sup>+</sup> form in the WX product version.

Membrane in WX form is pre-expanded in hot water and shipped wet in pH 10 solution. WX is an easy to use membrane and less prone to damage during handling. Refer to technical bulletin

T-04, "Nafion™ Membrane WX Products," for more information. Membrane in the PW form is pre-expanded at room temperature and shipped with a neutral pH.

Membrane in TX form is pre-expanded and ready to install directly into chloralkali electrolyzers without any pretreatment. Refer to technical bulletin T-05, "Nafion™ Membrane TX Products," for information on TX membranes.

To ensure optimum performance of Nafion™ N2030 in a commercial electrolyzer, please contact your representative for details.

**Note:** The side marked CATH must be installed facing the cathode; otherwise, the membrane will be irreversibly damaged in use.

### Size and Packaging

Nafion™ membranes are available in custom sizes with widths up to 1.5 meters and lengths up to 4 meters.

### WX and PW Membrane

Small sheets are sealed in polyethylene pouches and shipped flat in wooden containers. Large sheets are rolled on plastic tubes, wrapped with a polyethylene sheet, and shipped in a watertight plastic container.

### TX Membrane

Small sheets are sealed in pouches and shipped flat in wooden containers. Large sheets are rolled on a polyethylene-covered fiberboard tube, wrapped with a polyethylene sheet, 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:

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