



Nafion™ N2060

Ion Exchange Materials

Product Information

Nafion™ N2060 is the latest development in the high performance family of membranes offered by Chemours. It uses optimized membrane polymers for performance and exhibits significantly lower voltage. Nafion™ N2060 has new reinforcement which contributes to lower voltage and ensures safe and reliable operation. Nafion™ N2060 is a high performance membrane for narrow and zero gap electrolyzers in the production of chlorine and 30–35% caustic soda.

- Improved voltage (-40–45 mV versus Nafion™ N2050)
- High elasticity reinforcement
- Excellent conductivity and selectivity
- Outstanding stability in harsh environments
- Reinforced for safe operation
- Same properties on the cathode and anode surface to enhance gas release

Performance

| Membrane Type | Laboratory Cell | |
|---------------|-----------------|-----------------------|
| | Cell Voltage, V | Current Efficiency, % |
| Nafion™ N2060 | <2.92 | >96 |
| Nafion™ N2050 | <2.96 | >96 |
| Nafion™ N2030 | <3.02 | >96 |

Conditions: Zero gap, 0.0100 m², activated anode, activated cathode, 32% NaOH, 200 g/L anolyte, 90 °C (194 °F), 6.0 kA/m²

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.

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WX Membrane

Nafion™ N2060 membrane is available in Na⁺ and K⁺ versions. It is shipped in WX form, which is pre-expanded in hot water and shipped wet in pH 10 solution. WX is an easy to use membrane and resistant to damage during handling. Refer to technical bulletin T-04, “Nafion™ Membrane WX Products,” for more information.

To ensure optimum performance of Nafion™ N2060 in a commercial electrolyzer, please contact us.

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

Small sheets of WX membrane 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.