



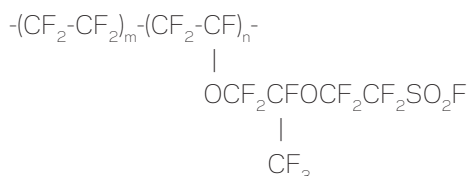
Nafion™ R1000 and R1100

Ion Exchange Materials

Thermoplastic Resins

Product Information

Nafion™ thermoplastic resins from Chemours are perfluorinated polymers used to manufacture ion exchange membranes, catalysts, and related materials. It is a copolymer of tetrafluoroethylene and perfluoro-3,6-dioxo-4-methyl-7-octenesulfonyl fluoride, with a chemical structure as shown below:



This thermoplastic polymer must be hydrolyzed (chemically treated) to convert it to a form suitable for use in ion-exchange applications. Please consult Nafion™ Technical Service for further information.

Typical Properties

Bead Size	7-9 mesh (3 mm x 4 mm)
Bulk Density, g/cc	1.25
Ion Exchange Capacity, meq/g*	
Nafion™ R1000	>1.00
Nafion™ R1100	>0.92

*After hydrolysis

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.

Order and Packaging Information

Nafion™ thermoplastic resins are available in 1, 2, 5, and 10 kg and larger packages, with a minimum 1 kg order quantity.

Nafion™ thermoplastic resins are packaged in sealed plastic bags and placed inside fiberboard shippers, which meet DOT and UN standards for both domestic and international ground and air shipments.

Safe Handling and Use of Nafion™ Thermoplastic Resins

The following information should be reviewed before handling and processing Nafion™ thermoplastic resins:

- Material Safety Data Sheet for Nafion™ thermoplastic resins R1000 and R1100
- Nafion™ “Safety in Handling and Use” technical bulletin, T-01
- “Guide to Safe Handling of Fluoropolymer Resins,” Fourth Edition, November 2005, Published by the Fluoropolymers Division of the Society of the Plastics Industry, Inc.

For more information about Nafion™, contact:

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