



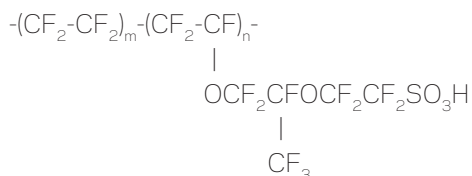
Nafion™ NR40 and NR50

Ion Exchange Materials

Superacid Resins

Product Information

Nafion™ perfluorosulfonic acid (PFSA) superacid resin is a bead-form, strongly acidic resin developed for heterogeneous acid catalysis of a wide variety of organic reactions. It is a copolymer of tetrafluoroethylene and perfluoro-3,6-dioxo-4-methyl-7-octenesulfonyl fluoride, converted to the proton (H⁺) form, with a chemical structure as shown below:



The maximum use temperature is 200 °C (392 °F), and local exhaust ventilation should be used for operations above 150 °C (302 °F) in open systems.

Typical Properties

Bead Size	7-9 mesh (3 mm x 4 mm)
Bulk Density, g/cc	1.25
Ion Exchange Capacity, meq/g	
Nafion™ NR40	1.0
Nafion™ NR50	0.9
Water Content, wt%	<2

Order and Packaging Information

Nafion™ PFSA superacid resin is available in 1, 2, 5, and 10 kg packages, with a minimum 1 kg order quantity. Contact Nafion™ Customer Service for availability of larger quantities.

Nafion™ PFSA superacid resin is 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. Dry Nafion™ PFSA superacid resin is hygroscopic and may exceed the 2% moisture content after shipping and storage.

Safe Handling and Use of Nafion™ PFSA Superacid Resin

The following information should be reviewed before handling and processing Nafion™ PFSA superacid resin:

- Material Safety Data Sheet for Nafion™ PFSA superacid resins NR40 and NR50
- Nafion™ “Safety in Handling and Use” technical bulletin, T-01
- “Guide to Safe Handling of Fluoropolymer Resins”, Third Edition, June 1998, Published by the Fluoropolymers Division of the Society of the Plastics Industry, Inc.

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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