

Nafion® Ion-Exchange Membranes

Perfluorocarbonsulfonic acid based ionomers, of which Nafion® is prototypical, are the focus of extensive studies for their use as solid polymer electrolytes in PEM fuel cells, gas sensors, and other electrochemical devices. Membrane thickness has been shown to have a significant influence on gas permeability and consequently on other key parameters associated with the electrochemical device. The table below summarizes the range of Nafion® membranes offered by Aldrich, including some recent additions, arranged in order of increasing thickness. For a complete list of Nafion® products from Aldrich, browse through the **Products by Category Section** of the **NEW Aldrich Polymer Products CD-Catalog and Reference Guide**. Request your FREE CD as explained below.

Catalog No.	Nafion® Product Description	Membrane Thickness (inches)	Equivalent Weight	Membrane Dimensions (inches)	Price (\$/ea)
54,126-5 <small>NEW!</small>	Nafion® 112	0.002	1,100	12 X 12	
54,130-3 <small>NEW!</small>	Nafion® 1035	0.0035	1,000	12 X 12	
54,131-1 <small>NEW!</small>	Nafion® 1135	0.0035	1,100	12 X 12	
54,133-8 <small>NEW!</small>	Nafion® 105	0.005	1,000	12 X 12	
54,134-6 <small>NEW!</small>	Nafion® 115	0.005	1,100	12 X 12	
29,256-7	Nafion® 117	0.007	1,100	12 X 12	
27,467-4	Nafion® 117	0.007	1,100	8 X 10	
45,473-7	Nafion® 350, reinforced with Teflon®	0.010	1,100	8 X 10	
27,468-2	Nafion® 417 reinforced w/ Teflon®, Dacron®	0.017	1,100	4 X 5	
39,334-7	Nafion® NE 450 reinforced w/ Teflon®	0.017	1,100	12 X 12	
49,578-6 <small>NEW!</small>	Nafion® (perfluorinated ion-exchange powder)	-	1,100	500mg	

Larger quantities are available through Sigma-Aldrich Fine Chemicals. Please call **800-336-9719 (USA)** or **314-534-4900**, or your local office for availability.

Nafion, Teflon, and Dacron are registered trademarks of E.I. du Pont de Nemours & Co., Inc.



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