



AMBERJET™ 9000 OH Macroporous Strong Base Anion Exchange Resin

For the Power Industry

Description

AMBERJET™ 9000 OH Resin is a uniform particle size, macroporous, strong base anion (type I) exchange resin specifically designed for use in regenerable mixed bed condensate polisher systems. AMBERJET™ 9000 OH Resin is best paired with AMBERJET™ 1500 H, AMBERJET™ 1600 H or AMBERJET™ 2000 H for optimum polisher performance.

The resin is specially designed for use in deep bed condensate polishing in Nuclear or fossil fueled Power stations

Advantages

- High anion kinetics
- Excellent resistance to surface fouling
- White cream colour makes separation very visible and easy
- High osmotic stability

Typical Physical and Chemical Properties

Physical form		Light tan opaque spherical beads
Matrix		Macroreticular styrene-divinylbenzene copolymer
Functional group		Quaternary ammonium
Total volume capacity	meq/ml	0.80 minimum (17.5 kgr/ft ³) (OH ⁻ form)
Moisture retention capacity	%	66–75 (OH ⁻ form)
Particle size distribution†		
Uniformity coefficient	%	1.20 maximum
Harmonic mean diameter	mm	0.58–0.70
Retained on 0.850 mm (20 mesh)	%	5 maximum
Through 0.425 mm (45 mesh)	%	2.0 maximum
Through 0.300 mm (50 mesh)	%	0.5 maximum
Conversion to OH ⁻ form	%	93 minimum
Shipping density**		660 lbs/ft ³ 41.2

† For additional particle size information, please refer to Particle Size Distribution Cross Reference Chart (Form No. 177-01775).

**As per the backwashed and settled density of the resin, determined by ASTM D-2187

Suggested Operating Conditions

Maximum operating temperature	60°C (140°F)
Regeneration	
Dose	130–240g/L (8–15 lb/ft ³)
Concentration	4–6%
Minimum contact time	30 minutes
Flow rate	4 BV/hr (0.25–0.5 gpm/ft ³)

Product Stewardship

Dow has a fundamental concern for all who make, distribute, and use its products, and for the environment in which we live. This concern is the basis for our product stewardship philosophy by which we assess the safety, health, and environmental information on our products and then take appropriate steps to protect employee and public health and our environment. The success of our product stewardship program rests with each and every individual involved with Dow products - from the initial concept and research, to manufacture, use, sale, disposal, and recycle of each product.

Customer Notice

Dow strongly encourages its customers to review both their manufacturing processes and their applications of Dow products from the standpoint of human health and environmental quality to ensure that Dow products are not used in ways for which they are not intended or tested. Dow personnel are available to answer your questions and to provide reasonable technical support. Dow product literature, including safety data sheets, should be consulted prior to use of Dow products. Current safety data sheets are available from Dow.

DOW™ Ion Exchange Resins For more information about DOW™ resins, call the Dow Water & Process Solutions business:

North America: 1-800-447-4369
Latin America: (+55) 11-5188-9222
Europe: (+32) 3-450-2240
Pacific: +60 3 7958 3392
Japan: +813 5460 2100
China: +86 21 2301 1000
<http://www.dowwaterandprocess.com>

Warning: Oxidizing agents such as nitric acid attack organic ion exchange resins under certain conditions. This could lead to anything from slight resin degradation to a violent exothermic reaction (explosion). Before using strong oxidizing agents, consult sources knowledgeable in handling such materials.

NOTICE: No freedom from infringement of any patent owned by Dow or others is to be inferred. Because use conditions and applicable laws may differ from one location to another and may change with time, Customer is responsible for determining whether products and the information in this document are appropriate for Customer's use and for ensuring that Customer's workplace and disposal practices are in compliance with applicable laws and other government enactments. The product shown in this literature may not be available for sale and/or available in all geographies where Dow is represented. The claims made may not have been approved for use in all countries. Dow assumes no obligation or liability for the information in this document. References to "Dow" or the "Company" mean the Dow legal entity selling the products to Customer unless otherwise expressly noted. NO WARRANTIES ARE GIVEN; ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED.

