



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**	g/L lbs/ft ³	660 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	70°C (158°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)

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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.

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