



# Amberjet™ and Ambersep™ Resins for Regenerable Condensate Polishing Applications

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#### CAUTION

Ion exchange resins and polymeric adsorbents, as produced, contain by-products resulting from the manufacturing process. The user must determine the extent to which organic by-products must be removed for any particular use and establish techniques to assure that the appropriate level of purity is achieved for that use. The user must ensure compliance with all prudent safety standards and regulatory requirements governing the application. Except where specifically otherwise stated, Rohm and Haas Company does not recommend its ion exchange resins or polymeric adsorbents, as supplied, as being suitable or appropriately pure for any particular use. Consult your Rohm and Haas technical representative for further information. Acidic and basic regenerant solutions are corrosive and should be handled in a manner that will prevent eye and skin contact. Nitric acid and other strong oxidizing agents can cause explosive type reactions when mixed with ion exchange resins.

Proper design of process equipment to prevent rapid buildup of pressure is necessary if use of an oxidizing agent such as nitric acid is contemplated. Before using strong oxidizing agents in contact with ion exchange resins, consult sources knowledgeable in the handling of these materials.

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Material Safety Data Sheets outlining the hazards and handling methods for our products are available on request.

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# AMBERJET™ and AMBERSEP™ Ion Exchange Resins for Regenerable Condensate Polishing Applications in Nuclear (PWR) and Fossil Power Plants

Product Name	Function	Porosity	Ionic Form	Total Capacity (eq/L, mini)	Shipping Weight		Max. Temp.		Applications
					g/L	lbs/ft <sup>3</sup>	°C	°F	
<b>Amberjet 1500 H</b>	Strong acid	Gel	H <sup>+</sup>	2.00	820	51.0	130	265	Uniform particle size cation resin with high capacity. Used in high flow rate condensate polishing in combination with Amberjet 4400 OH. Good chemical and physical stability.
<i>Amberjet 1600 H Premier POWEResin</i>	Strong acid	Gel	H <sup>+</sup>	2.40	840	52.4	15-60	60-140	Uniform particle size cation resin with very high capacity. Combines the highest capacity with exceptional oxidative and physical stability.
<b>Amberjet 4400 OH</b>	Strong base, type 1	Gel	OH <sup>-</sup>	1.10	690	43.0	60	140	Uniform particle size anion resin with very high capacity. Good physical and osmotic stability.
<i>Amberjet 9000 OH Premier POWEResin</i>	Strong base, type 1	MR	H <sup>+</sup>	0.80	660	41.2	15-60	60-140	Uniform particle size anion resin that combines excellent physical stability with superior resistance to fouling and for maximum resin life.
<b>Ambersep 200 H</b>	Strong acid	MR	H <sup>+</sup>	1.65	770	48.0	130	265	Macroreticular cation resin. Excellent physical and oxidative stability.
<b>Ambersep 252 H</b>	Strong acid	MR	H <sup>+</sup>	1.65	780	48.7	130	265	Macroreticular cation resin. Very good physical and osmotic stability and good oxidative stability.
<b>Ambersep 900 OH</b>	Strong base, type 1	MR	OH <sup>-</sup>	0.80	675	42.1	60	140	Macroreticular anion resin. Superior resistance to mechanical and osmotic shocks.
<b>Ambersep 900 SO<sub>4</sub></b>	Strong base, type 1	MR	SO <sub>4</sub>	1.10 (Cl form)	740	46.2	60	140	Supplied in SO <sub>4</sub> form for maximum storage stability.
<b>Ambersep 359</b>	Inert	-	-	-	735	45.9	80	176	For three-component mixed beds.

