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AMBERJET™ 2000 H

Industrial Grade Strong Acid Cation Exchanger

AMBERJET 2000 H resin is a uniform particle size, macroporous, strong acid cation exchange resin.

It is intended for use in mixed bed polishing applications requiring high effluent purity and long resin life. Amberjet 2000 H resin can operate reliably under the high flow rate and pressure drop conditions that are typically used in condensate polishers. The particle size and uniformity of Amberjet 2000 H resin allow for excellent backwash separation when used in mixed beds.

Amberjet 2000 H resin exhibits an increase in sodium selectivity in the presence of organic amines. This makes it especially useful for condensate purification in systems that use morpholine or ethanolamine (ETA) for pH control.

The very high level of DVB crosslinker, combined with a proven macroporous resin structure, give Amberjet 2000 H resin exceptional resistance to physical, osmotic and oxidative stresses. This allows for maximum useful life of the cation resin, while minimizing the release of organic sulfonate leachables. The high oxidative stability and low leachables of Amberjet 2000 H resin also help to preserve the kinetic response of the anion exchange resin in a mixed bed polisher. This is another important factor in maintaining low levels of sulphate in the steam generator or boiler.

Properties

Physical Form	Opaque, gray to beige color spherical beads
Matrix	Polystyrene divinylbenzene copolymer
Functional groups	Sulfonic Acid
Conversion to H ⁺ form	99% minimum
Total exchange capacity	≥ 1.70 eq/l (H ⁺ form)
Moisture holding capacity	50 - 57 % (H ⁺ form)
Shipping weight	770 g/L
Particle Size	
Uniformity coefficient	≤ 1.20
Harmonic mean size	0.825 – 1.000 mm < 0.300 mm 0.5 % max
Maximum reversible swelling	Na ⁺ → H ⁺ : 6 %

Suggested Operating Conditions

Water Treatment	
Service flow rate	20 to 120
Regeneration	
Regenerant	H ₂ SO ₄ HCl
Level (g/L)	125 to 250 80 to 200
Concentration (%)	1.5 to 4 5 to 6
Slow rinse	2 BV at regeneration flow rate
Fast rinse	2 to 4 BV at service flow rate

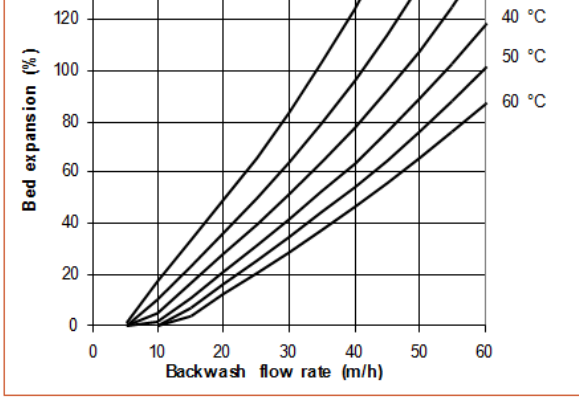


Figure 1 : Bed Expansion

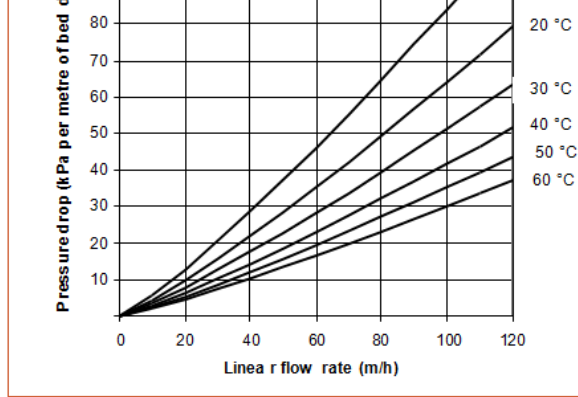
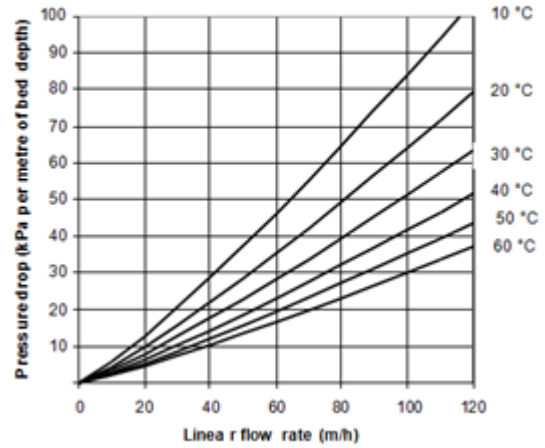
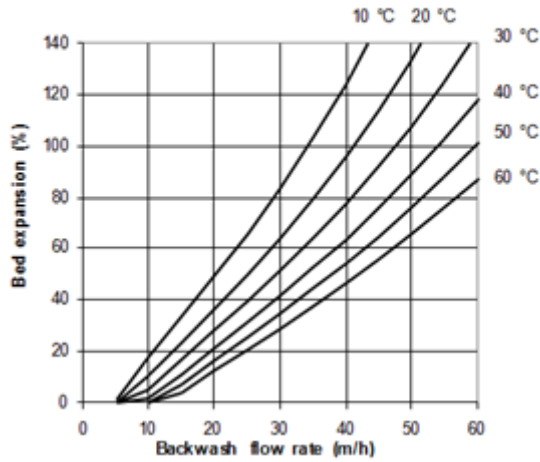


Figure 2 : Pressure Drop

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Limits of use

Amberjet 2000 H resin is suitable for industrial uses. For all other specific applications such as pharmaceutical, food processing or potable water applications, it is recommended that all potential users seek advice from Dow Water & Process Solutions in order to determine the best resin choice and optimum operating conditions.

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

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