

Aldex MP Series

C-800H MP Macroporous Strong Acid Resin Hydrogen Form

Aldex C-800H MP is a **premium grade, high capacity, strongly acidic macroporous cation resin in the hydrogen form**, used in demineralization systems and condensate polishers. Aldex C-800H MP combines high capacity characteristics with the increased thermal and chemical stability versus gellular resins. Aldex C-800H MP is more highly crosslinked than our standard non-solvent resins Aldex C-800H and Aldex C-800x10H.

Physical Chemical Properties

Resin Composition:	Macroporous polystyrene crosslinked with divinylbenzene
Ionic Form as Shipped:	Hydrogen (H ⁺)
Physical Form:	Spherical particles
Moisture Content (H ⁺ Form):	54 to 59%
Total Capacity (H ⁺ Form):	1.8 eq/l (Na ⁺ form)
Odor and Taste:	None
Net Weight (as shipped):	47 lbs per cubic foot
Particle Size:	16 to 40 mesh
Uniform Coefficient	1.7 maximum
Reversible Swelling Na to H:	4%
Specific Gravity (g/cc):	1.18
Shipping Weight:	740 to 775 g/l (46 to 48 lbs/ft ³)
Temperature Limit (H ⁺ form):	120°C (250°F)

Recommended Operating Conditions

Influent pH:	1 to 14
Maximum Temperature:	300 °F
Bed Depth:	Minimum 24"
Service Flow Rate:	2 US GPM per cubic foot
Backwash Flow Rate:	See Fig. 2
Regenerant:	Sodium Chloride (NaCl)
Regenerant Strength:	10%
Regenerant Flow Rate:	0.3 to 1.0 US GPM per cubic foot of resin
Regenerant Dosage Level:	See Fig. 3
Slow Rinse (Displacement) Flow Rate:	0.3 to 1.0 US GPM per cubic foot of resin
Rinse Water Requirements:	25 to 75 US GPM per cubic foot
Service Flow Rate:	2 US GPM per cubic foot
Exchange Capacity:	See Fig. 3

C-800H MP Features

Macroporous Structure

The macroporous structure of Aldex C-800H MP make it possible to incorporate a higher level of divinylbenzene into the copolymer matrix than is possible with standard gel type resins. This results in a resin which has greater thermal and chemical stability.

High Physical Stability

The macroporous structure with high divinylbenzene content and uniform particle size provides greater resistance to bead breakage and oxidative attack.

Low Pressure Drop

The uniform particle size of 98%+ in the 16 to 40 mesh size range gives Aldex C-800H MP a lower pressure drop while maintaining the superior kinetics of standard mesh resin.

Safety Information

A material safety data sheet is available for Aldex C-800H MP. Copies can be obtained from Aldex Chemical Co., LTD. Aldex C-800H MP is not a hazardous product and is not WHMIS controlled.

Caution: Acidic and basic regenerant solutions are corrosive and should be handled in a manner that will prevent eye and skin contact. Before using strong oxidizing agents in contact with ion exchange resin, consult sources knowledgeable in the handling of these materials.



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Pressure Drop

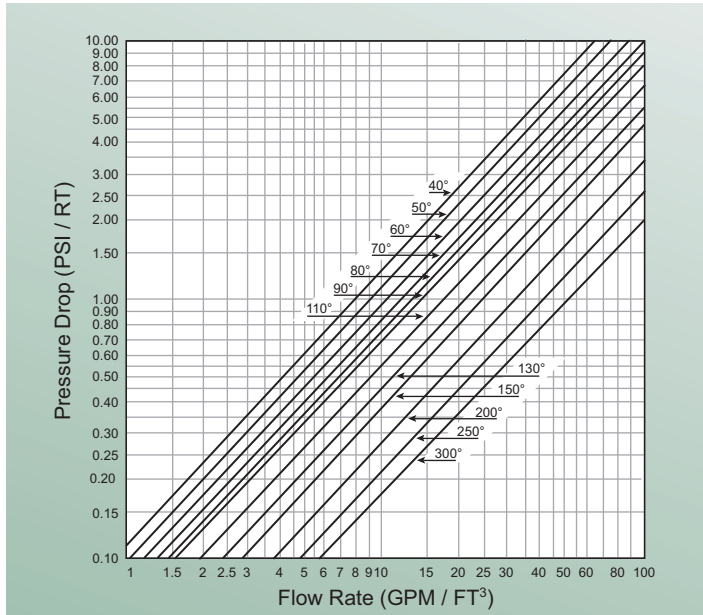


Fig. 1 Pressure Drop vs Flow Rate at various degrees Fahrenheit (F°)

Capacity Data

Regeneration level lbs NaCl per cubic foot	Capacity kgr as CaCo ₃ per cubic foot	Salt efficiency lbs NaCl per kgr removed cubic foot
4	19.0	11.5
6	23.0	12.8
8	25.3	13.6
10	28.1	14.5

Fig. 3 Capacity Data

Backwash Characteristics

Aldex C-800H MP should be backwashed for at least 10 minutes at a flow rate sufficient to cause 50% to 75% expansion of the resin bed.

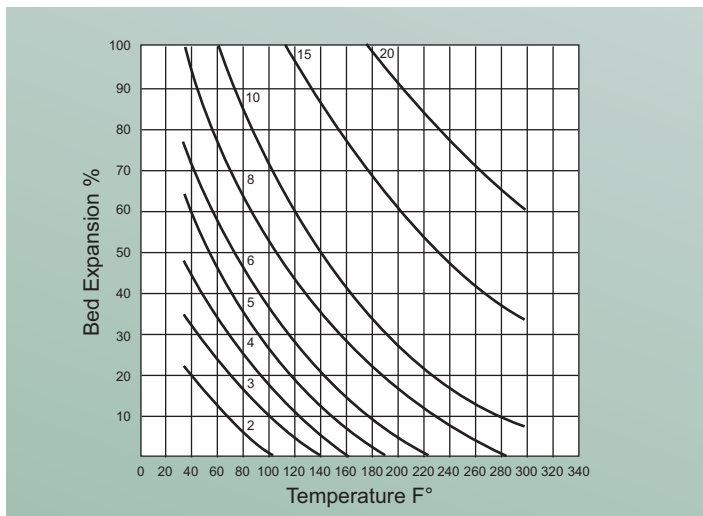


Fig. 2 Hydraulic expansion data parameter flow rate GPM / FT³



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