



PA102

Anion Exchange Resin
Gel Strong Base

High Quality & Cost-Effective

Product Description

Pure PA102 is a Type I, gel strong-base anion exchange resin, high capacity, supplied as spherical beads in the chloride form. **Pure PA102** is available in Cl or OH form.

Applications

Pure PA101 is intended for use in all type of deionization systems and chemical processing applications, especially suited for use in mixed bed and layered bed demineralizer systems, including silica removal.

Typical Physical & Chemical Characteristics

Polymer Matrix Structure	Polystyrene crosslinked with DVB
Functional Group	R-N(CH ₃) ³⁺
Ionic Form, as shipped	Chloride (Cl ⁻)
Physical Form And Appearance	Clear Spherical Beads
Sphericity	95% min.
Screen Size Range --- U.S. Standard Screen	16-50 mesh, wet
Particle Size Range	+1.2 mm < 5%, -0.3 mm < 1%
Uniformity Coefficient	1.6 max.
Water Retention, Cl ⁻ form	42-48%
Swelling Cl ⁻ → OH ⁻	18-25%
Shipping Weight, Cl ⁻ form	670-730 g/l (44 lbs/cu.ft, approx.)
Total Exchange Capacity, Cl ⁻ form	1.5 eq/l min.
pH Range	0-14

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Suggested Operating Conditions

Maximum Temperature

Cl ⁻ form	100°C (212°F) max.
OH ⁻ form	60°C (140°F) max.

Minimum Bed Depth

0.6 m (24 inches)

Backwash Expansion

50-75% bed expansion

Regeneration

Regenerant Concentration	4-6% NaOH
Flow Rate	2 to 8 BV/h (0.25 to 1.00 gpm/cu.ft)
Contact Time	At least 40 Minutes

Displacement Rinse Rate

Same as Regenerant Flow Rate

Displacement Rinse Volume

10-15 gallons/cu.ft

Fast Rinse Rate

Same as Service Flow Rate

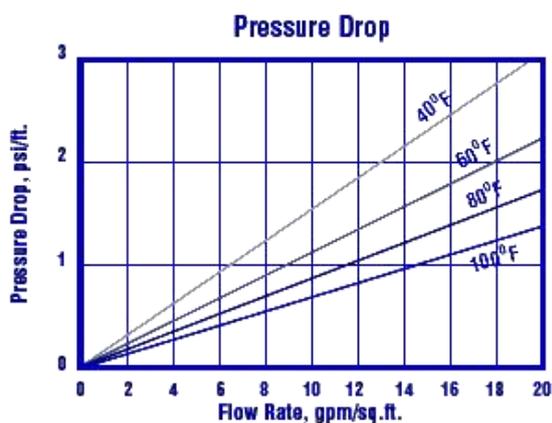
Fast Rinse Volume

35-60 gallons/cu.ft

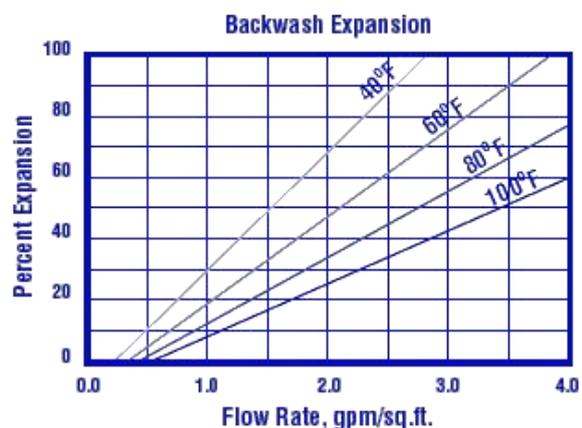
Service Flow Rate

16-32 BV/h (2.0-4.0 gpm/cu.ft)

Hydraulic Properties



Pressure Drop: The graph above shows the expected pressure loss per foot of bed depth as a function of flow rate at various temperatures.



Backwash: After each cycle the resin bed should be backwashed at a rate that expands the bed 50 to 75 percent. This will remove any foreign matter and reclassify the bed. The graph above shows the expansion characteristics of **PA102** in Cl⁻ form.

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