



PA104

Gel Strong Base Anion Exchange Resin

PURE RESIN

Product Description

Pure PA104 is a Type II, gel strong-base anion exchange resin, with high capacity and excellent regeneration efficiency, supplied as spherical beads in the chloride form. It removes all ions including silica and CO₂, anyway, it operates best on waters having a high percentage of strong acids (FMA).

Applications

Pure PA104 is intended for use in all type of dealkalization, demineralization, deionization and chemical processing applications.

Typical Physical & Chemical Characteristics

Polymer Matrix Structure	Polystyrene crosslinked with DVB
Functional Group	R-N(CH ₃) ₂ (C ₂ H ₄ OH) ⁺
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	37-44%
Swelling Cl ⁻ → OH ⁻	15% max.
Shipping Weight, Cl ⁻ form	680-760 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 60°C (176°F) max.

OH⁻ form 40°C (105°F) max.

Minimum Bed Depth 0.6 m (24 inches)

Backwash Expansion 50-75%

Regeneration

Regenerant Concentration 2-6% NaOH

Flow Rate 2 to 4 BV/h (0.25 to 0.50 gpm/cu.ft)

Contact Time At least 60 Minutes

Displacement Rinse Rate Same as Regenerant Flow Rate

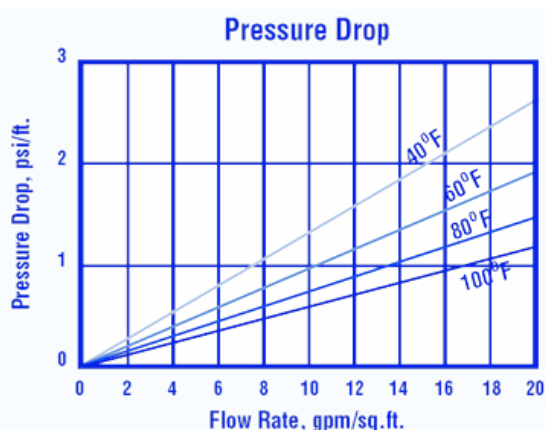
Displacement Rinse Volume 10-15 gallons/cu.ft

Fast Rinse Rate Same as Service Flow Rate

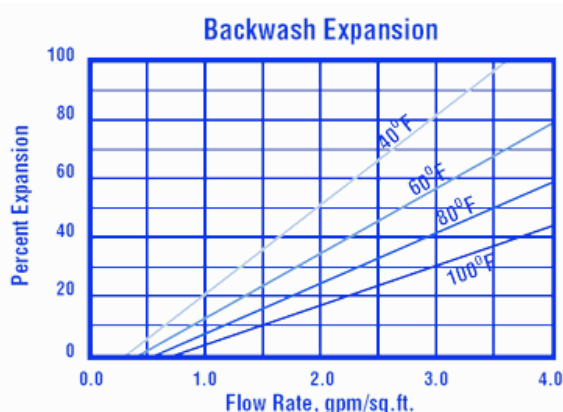
Fast Rinse Volume 35-60 gallons/cu.ft

Service Flow Rate 4-8 BV/h (1.0-5.0 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. That will remove any foreign matter and reclassify the bed. The graph above shows the expansion characteristics of Pure PA104.

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