PA101

Gel Strong Base Anion Exchange Resin

PURE RESIN

Product Description

Pure PA101 is a Type I, gel strong-base anion exchange resin with both high operating capacity and the ability to achieve low residual silica levels, supplied as spherical beads in the chloride form. **Pure PA101** is available in Cl or OH form.

Applications

Pure PA101 is for regeneration efficient demineralization including silica removal. **Pure PA101** is also 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.

Typical Physical & Chemical Characteristics	
Polymer Matrix Structure	Polystyrene crosslinked with DVB
Functional Group	$R\text{-}N(CH_3)_3^+$
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	48-58%
Swelling $Cl^- \rightarrow OH^-$	20-30%
Shipping Weight, Cl^- form	660-710 g/l (43 lbs/cu.ft, approx.)
Total Exchange Capacity, Cl^- form	1.3 eq/l min.
pH Range	0-14

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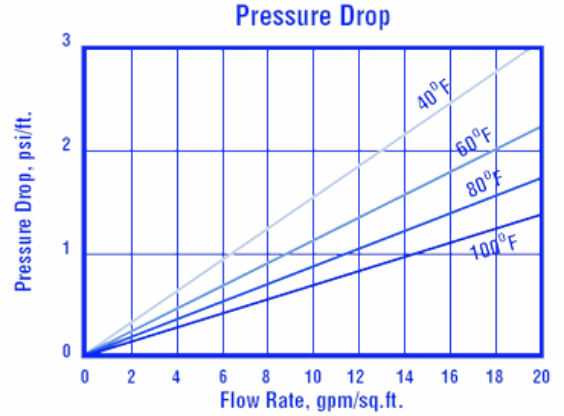
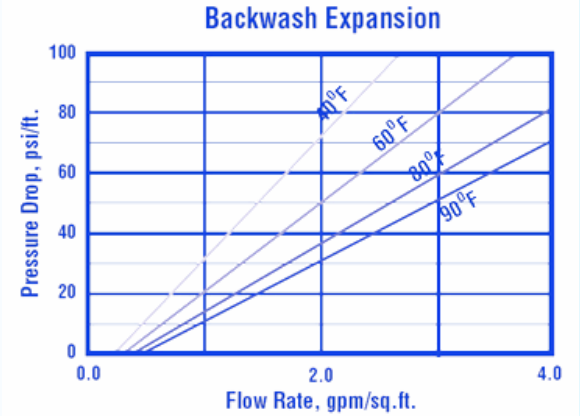
Suggested Operating Conditions

Maximum Temperature	
Cl^- form	100ºC (212ºF) max.
OH^- form	60ºC (140ºF) max.
Minimum Bed Depth	0.6 m (24 inches)
Backwash Expansion	50-75%
Regeneration	
Regenerant Concentration	2-6% NaOH
Flow Rate	2 to 8 BV/h (0.25 to 1.00 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	8-40 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.

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