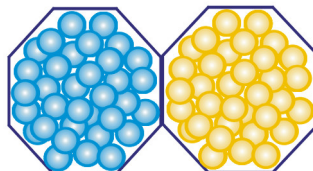


Technical Data Sheet

EZ-OH 402 (Strong Base Anion Exchange Resin)



Product Description & Applications

EZ OH- 402 is a uniform particle size, Type I, gel strong-base anion exchange resin, high capacity, supplied as spherical beads in the chloride form. **EZ OH- 402** is available both in Cl and OH form.

EZ OH 402 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

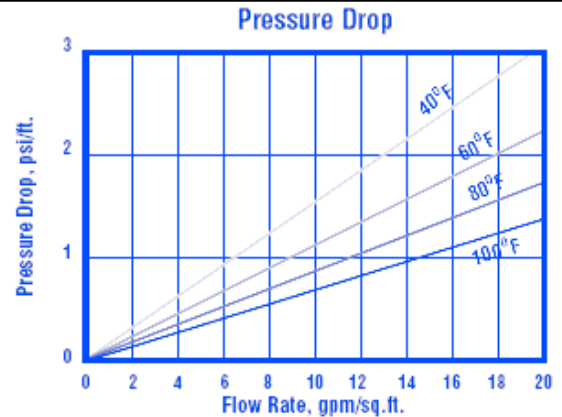
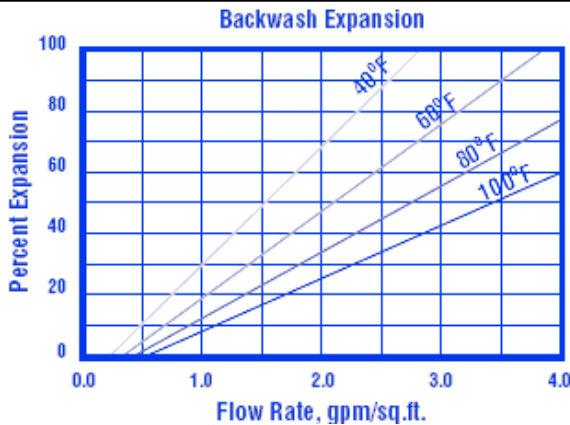
Typical Physical & Chemical Characteristics	
Polymer Matrix Structure	Polystyrene crosslinked with 7% DVB
Functional Group	R-N(CH ₃) ₃ ⁺
Ionic Form, as shipped	Chloride (Cl ⁻)
Physical Form And Appearance	Clear Spherical Beads
Sphericity	95% min.
Screen Size Range --- U.S. Standard Screen	25-40 mesh, wet
Particle Size Range	0.4-0.71mm
Uniformity Coefficient	1.2 max.
Water Retention, Na ⁺ form	42-48%
Swelling Cl ⁻ → OH ⁻	18 - 25%
Shipping Weight, Cl ⁻ form (approx.)	700 g/l (44 lbs/cu.ft)
Capacity, Total Exchange Cl ⁻ form	1.5 eq/l min.
pH Range	0-14



Suggested Operating Conditions

Maximum Temperature Cl ⁻ form OH ⁻ form	100°C (212°F) max. 60°C (140°F) max.
Minimum Bed Depth	0.6 m (24 inches)
Backwash Expansion	50-75%
Concentration Regeneration Regenerant Flow Rate Contact Time	4-6% NaOH 2 to 4 BV/h (0.25 to 0.50 gpm/cu.ft) At least 40mins
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 **EZ OH- 402**.

RECOMMENDED NaOH QUALITY FOR REGENERATION (*)

Silica	10 ppm	Sodium carbonate	0.5 %
Iron	10 ppm	Sodium chloride	0.5 %
Mercury	2 ppm	Sodium sulphate	0.2 %
Heavy metals	5 ppm	Hardness	0 ppm
Chlorates	10 ppm as O ₂	Suspended solids	0 ppm

(*) Values referred to NaOH 100%.