



D301 Macroporous styrene series weakly alkaline anion exchange resin

1. Description

This is a kind of anion exchange resin which has tertiary amine groups in styrene-divinylbenzene copolymer. It can remove effectively organic coloring matters, inorganic acids and silicates from acidic and nearly neutral medium, with its weak alkalinity. It also can adsorb the big-sized impurities and be used in non-aqueous solution. This resin has good properties, such as highly-efficient regeneration capability, large exchange capacity, strong contamination resistance, excellent physical strength etc.

2. Typical Physical and Chemical Properties:

Items	Specification
Polymer Matrix Structure	Crosslinked Polystyrene Divinylbenzene
Physical Form and Appearance	Ivory opaque spherical particle
Functional Groups	R-N(CH ₃) ₂
Ionic Form ,as shipped	Free Base
Total Capacity, FB form, wet, volumetric	≥1.45eq/l min
Moisture Retention, FB form	50-60%
Particle Size Range	0.3mm-1.2mm
	0.45 mm-1.2mm
	0.6mm-1.2mm
<0.3mm (max.)	1%
Uniformity Coefficient (max.)	1.6
effective size	0.4-0.7mm
Reversible Swelling FB→CL- (max.)	20-28%
Shipping Weight (approx.)	650 -720g/l
Specific Gravity, moist FB Form	1.09
pH Range, Stability	1 - 9

3.Suggested Operating Condition

Maximum Temperature: Free Base Form	100°C (212oF) max.
Backwash Rate	50 to 75% Bed Expansion
Regenerant Concentration	2-4% NaOH
Regenerant dosage	NaOH NaOH volume:resin volume =3:1
Regenerant Flow Rate	2 to 4 BV/h
Regenerant contact Time	At least 40 minutes
Service Flow Rate	10-25m/h

4. Applications

It is mainly used in purification, ash removal and decolorization of sugar solution, decolorization of xylose, desalination and decolorization of starch sugar and water treatment industry. When being used in industrial water treatment, it can be used for manufacturing the pure water and high purity water, electroplating the chromium from wastewater etc.



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