Bestion® BD301
Macroporous Weak Base Anion Exchange Resin

Ion Exchange Resins

Description

BD301 is a macroporous weak base anion exchange resin with styrene-DVB matrix, having tertiary amine groups. BD301 has superior kinetics and greater resistance to oxidation and osmotic shock. It has high regeneration efficiency with low amount of regenerant and yields high operating capacities. Large organic molecules are also readily removed by the resin and easily eluted due to macroporous structure of BD301.

BD301 typical uses of the resin are in two bed system where weak acid ions (like silica and carbon dioxide) do not have to be removed. The resin is mainly used in making pure water and ultra-pure water. It can also be used for treating waste water containing chromium and other metals.

BD301 series together with strong base anion exchange resin is used in water treatment, resulting in increasing the operating capacity and decreasing regenerant level and rinse. It can also protect strong base anion resin from organic molecules fouling.

BD301 has high chemical stress physical stability and is very resistant to thermal stress. These characteristics, in addition to the large pore size, allow BD301 to be specially used in cane sugar and corn syrup processing

TYPICAL PHYSICAL & CHEMICAL CHARACTERISTICS:

Polymer Structure		Styrene-DVB
Appearance		light yellow spherical beads
Type		Macroporous weak base Anion exchange resin
Ionic form		FB
Functional group		tertiary amine
MoistureContent	%	52-60%
Total Exchange Capacity	eq/L	≥1.45
Particle Size Range	0.315-1.25mm	≥95
Uniformity Coefficient	max.	≤1.6
Reversible Swelling	OH→Cl max %	≤20
Shipping Weight	g/ml	0.65-0.72
Temperature Limited	℃	100
Whole Spherical Rate After Attrition	%	≥90

TYPICAL PACKAGING

➢ 25L PE bag
➢ 1 Cubic feet
➢ 1000L Super Sacks

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40 years focused on the development and production of ion exchange resins