

Bestion® OT521

Macroporous Strong Base Anion Exchange Resin

Description

OT521 is macroporous type 1 strong base anion exchange resin with an acrylic matrix. The acrylic matrix ensures excellent removal of organic matter from a water supply in conjunction with its reversible removal upon regeneration.

OT521 is chiefly used as organic scavenger, also used in discoloration as adsorbing resin.

OT521 has excellent chemical and thermal stability, resistance to attrition and osmotic shock. These properties make the resin ideal for use in the pharmaceutical, chemical, and food processing industries.

TYPICAL PHYSICAL & CHEMICAL CHARACTERISTICS:

Polymer Structure		Acrylic-DVB
Appearance		white Opaque spherical beads
Type		Macroporous strong base Anion exchange resin
Ionic form		Cl ⁻
Functional group		quarternary ammonium
Moisture Content	%	65-75%
Total Exchange Capacity	eq/L	≥0.8
Particle Size Range	0.315-1.25mm	≥95
Uniformity Coefficient	max.	≤1.6
Reversible Swelling	Cl ⁻ → OH ⁻ max %	≤20
Shipping Weight	g/ml	0.66-0.71
Temperature Limited	°C	75 (Cl)
Whole Spherical Rate After Attrition	%	≥90

TYPICAL PACKAGING

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

Recommended Operating Conditions

Operating temperature Max		75 °C (Cl)
Operating pH-range		0 - 12
Bed depth	min. mm	800
Service flow rate	approx. m/h	4-5
Backwash	approx. m/h	8
Regenerant		NaCl NaOH
Counter current regeneration level	approx. g/l	NaCl 200 NaOH 10 - 20
Co current regeneration	level g/l	NaCl 200 NaOH 10 - 20
Co current regeneration concentration	%	NaCl 10 NaOH 1 - 2
regeneration Minimum contact time	min minutes	30
Regeneration flow rate	approx. m/h	5
rinsing flow rate	approx. m/h	5
Rinse water requirement slow / fast	BV	6