

TRILITE® ASP10

Strong Base Anion Exchange Resin, Acrylic, Macroporous Type

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TRILITE® ASP10 is an acrylic Macroporous type strong base anion exchange resins. It has functional group of quaternary ammonium. The high porosity of its macroporous structure allows excellent removal of large organic molecules from liquid sugars and other food streams, and provides excellent desorption of the organic color bodies during regeneration eliminating the fouling.

TRILITE® ASP10 can be used as a decolorization resin for highly colored sugar solutions on in combination with TRILITE AMP14 where the latter is used as a polisher for very low color final products.

Physical and Chemical Properties

Physical Form	White opaque spherical beads	Matrix	Acrylic-DVB, Macroporous
Functional Group	Quaternary amine	Ionic Form	Cl ⁻
Total Capacity(eq/ℓ)	0.8 ↑ (Cl ⁻)	Moisture Retention(%)	65~75 (Cl ⁻)
Shipping Density(g/ℓ)	700	Particle Density	1.05~1.10
Uniformity Coefficient	1.6 ↓	Particle Size(mm)	0.425-1.25 (Min. 95%)
Whole Beads(%)	90 ↑	Swelling Rate(Cl ⁻ →OH ⁻)	Within 25%

Recommended Operating Conditions

Operating Temp(°C)	Max. 80 (Cl ⁻)	pH Range	0~10
Bed Depth(mm)	800~900	Service Flow Rate(m/h)	5~50
Regeneration			
Regenerant	NaCl (+NaOH 0.5%,10g/L)	Concentration(%)	8~10
Level(g/ℓ)	180~220	Flow Rate(BV/hr)	2~6
Rinse Requirement(BV)	5~10 (Slow rinse : 2)		

Applications

Removing color from highly colored liquid sugar solution

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Samyang's TRILITE Ion exchange resins are produced based on the ISO 9001, ISO 14001 certification.

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