



# PA510

Anion Exchange Resin  
Macroporous Strong Base

High Quality & Cost-Effective

## Product Description

**Pure PA510** is a Type I, macroporous strong base anion exchange resin with an acrylic matrix.

## Applications

**Pure PA510** is used in decolorisation from sugar production (especially cane sugar) and decolorisation of organic products (glycerine, amino acid, tannin acid).

## Typical Physical & Chemical Characteristics

Polymer Matrix Structure	Poly-Acrylic Crosslinked with DVB
Functional Group	R-N-(CH <sub>3</sub> ) <sub>3</sub> <sup>+</sup> X
Ionic Form, as shipped	Chloride (Cl <sup>-</sup> )
Physical Form And Appearance	spherical beads
Sphericity	95% min.
Screen Size Range --- U.S. Standard Screen	16-50 mesh, wet
Particle Size Range	0.3-1.25mm
Uniformity Coefficient	1.7 max.
Water Retention, Cl <sup>-</sup> form	65-75%
Swelling Cl <sup>-</sup> → OH <sup>-</sup>	25% max
Shipping Weight, Cl <sup>-</sup> form	650-720 g/l (44 lbs/cu.ft, approx.)
Total Exchange Capacity, Cl <sup>-</sup> form	0.8 eq/l min.
pH Range	0-14

### PURE RESIN COMPANY LIMITED

No.10 Weisan Road, HSEDA, Shangyu, Shaoxing, Zhejiang 312369, China  
P. +86-571-8721-1518 F. +86-571-8721-1508 info@pureresin.com

[WWW.PURERESIN.COM](http://WWW.PURERESIN.COM)



# PA510

Anion Exchange Resin  
Macroporous Strong Base

High Quality & Cost-Effective

## Suggested Operating Conditions

### Maximum Temperature

Cl <sup>-</sup> form	60°C (140°F) max.
OH <sup>-</sup> form	35°C (95°F) max.

Minimum Bed Depth 0.6 m (24 inches)

Backwash Expansion 50-75% bed expansion

### Regeneration

Regenerant Concentration	2-6% NaOH
Flow Rate	2 to 8 BV/h (0.25 to 1.0 gpm/cu.ft)
Contact Time	At least 60 minutes

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 16-32 BV/h (2.0-4.0 gpm/cu.ft)