

GENERAL TECHNOLOGIES, SPC

- High-Quality Services & Products

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A352UP – CL **TYPE II MACROPOROUS STRONG BASE ANION EXCHANGE RESIN** (Designed for use in de-ashing and high purity water applications)

Product Description

A352UP(CL) resin is a UNIFORM PARTICLE SIZE, high capacity, macroporous polystyrene Type II strong base anion exchange resin.

Chiefly used in sugar refining with higher ion exchange capacity.

Typical Physical, Chemical & Operating Characteristics

Polymer Structure	Polystyrene cross-linked with Divinylbenzene
Physical Form and Appearance	Tough white spherical beads
Whole Bead Count	90% Min.
Functional Groups	R-N ⁺ (CH ₃) ₂ (C ₂ H ₄ OH)OH ⁻
Ionic Form (as shipped)	CL ⁻
Shipping Weight, approx.	680 g/l (42 lb./ft. ³)
Particle Size (mm)	-0.5 mm, <5% +1.0 mm, <5%
Moisture retention, Cl ⁻ form	47-57%
Swelling, Cl ⁻ to OH ⁻ , %	<15%
Total Capacity in Cl ⁻ form	>1.20 meq/ml
pH Range, Stability	0–14

CHEMICAL AND THERMAL STABILITY

A352UP(CL) resin is insoluble in dilute or moderately concentrated acids, alkalies, and in all common solvents. However, exposure to significant amounts of free chlorine, “hypochlorite” ions, or other strong oxidizing agents over long periods of time will eventually break down the crosslinking. This will tend to increase the moisture retention of the resin, decreasing its mechanical strength, as well as generating small amounts of extractable breakdown products. Like all conventional Polystyrene Type II anion resins, it is thermally stable to 77 °C (170 °F) in the salt form. The hydroxide form tends to degrade in water temperatures appreciably higher than 35 °C (95 °F), thereby losing capacity, as the functional groups are gradually replaced by hydroxyl groups.