

Product Data Sheet

AMBERLITE™ FPA661 Ion Exchange Resin

Weak Base Anion Exchange Resin

Description

AMBERLITE™ FPA661 Ion Exchange Resin is a weak base anion exchange resin having tertiary amine functional groups on a macroreticular polystyrene matrix. It combines chemical, physical, and osmotic stability with the capability of reversibly adsorbing large organic molecules.

AMBERLITE FPA661 Ion Exchange Resin is designed to produce (in combination with AMBERLITE FPC1110 Na or AMBERLITE™ FPC14 Na Ion Exchange Resins) partially demineralized water for food processing. Such water will be free from cations (Ca²+, Mg²+, Na+, K+) and strong anions (CI⁻, SO₄²⁻, NO₃⁻). It can subsequently be blended with untreated water in order to achieve the required level of total dissolved solids. The exhausted AMBERLITE FPA661 resin can be regenerated with dilute caustic soda solution.

Typical Properties

Physical Properties	
Copolymer	Styrene-divinylbenzene
Matrix	Macroporous
Туре	Strong base anion
Functional Group	-N (R) ₂
Physical Form	White, opaque, spherical beads
Chemical Properties	
Ionic Form as Shipped	Free base (FB)
Total Exchange Capacity	≥ 1.40 eq/L
Water Retention Capacity	50 – 58%
Particle Size §	
Particle Diameter	480 – 700 μm
Uniformity Coefficient	≤ 1.70
< 300 µm	≤ 1.0%
> 1000 μm	≤ 5.0%
Stability	
Swelling	FB → Cl⁻ : 45%
Density	
Particle Density	1.025 – 1.055 g/mL
Shipping Weight	640 g/L

[§] For additional particle size information, please refer to the <u>Particle Size Distribution Cross Reference Chart</u> (Form No. 177-01775).

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Please be aware of the following:

 WARNING: Oxidizing agents such as nitric acid attack organic ion exchange resins under certain conditions. This could lead to anything from slight resin degradation to a violent exothermic reaction (explosion). Before using strong oxidizing agents, consult sources knowledgeable in handling such materials.

Have a question? Contact us at:

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