

IMAC® HP661

Weak Base Anion Exchange Resin

PRODUCT DATA SHEET

IMAC HP661 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.

IMAC HP661 is designed to produce (in combination with IMAC HP1110 Na or

AMBERLITE SR1L Na) partially demineralised water for food processing. Such water will be free from cations (Ca^{2+} , Mg^{2+} , Na^+ , K^+) and strong anions (Cl^- , SO_4^{2-} , NO_3^-). It can subsequently be blended with untreated water in order to achieve the required level of total dissolved solids. The exhausted IMAC HP661 can be regenerated with dilute caustic soda solution.

PROPERTIES

Matrix _____	Polystyrene divinylbenzene copolymer
Functional groups _____	-N (R) ₂
Physical form _____	Opaque beads
Ionic form as shipped _____	Free Base (FB)
Total exchange capacity ^[1] _____	≥ 1.40 eq/ L (FB form)
Moisture holding capacity ^[1] _____	50 to 58 % (FB form)
Shipping weight _____	640 g/ L
Specific gravity _____	1.025 to 1.055 (FB form)
Particle size _____	
Harmonic mean size _____	480 to 700 µm
Uniformity coefficient _____	≤ 1.70
Fines content ^[1] _____	< 0.300 mm : 1.0 % max
Coarse beads _____	> 1.000 mm : 5.0 % max
Maximum reversible swelling _____	FB → Cl : 45 %

^[1] Contractual value

Test methods available upon request

QUALITY CONTROL

All IMAC HP resins are manufactured and purified specially for use in non industrial applications. Every batch of IMAC HP661 is analysed to ensure its compliance with high purity specifications, in particular :

- Physical and chemical properties,
- Individual release of certain substances in the treated water,
- Global release of organic substances expressed in TOC (Total Organic Carbon),
- Total microbial count.

COMMISSIONING

IMAC HP661 is ready to use* : all that is required at the time of commissioning is to perform a full regeneration cycle followed by a rinse with at least 20 bedvolumes of water.

This is valid only if :

1. the resin is stored at a temperature of less than 25°C and protected from UV radiations,
2. the storage time between production date (printed on the bags) and final use does not exceed 6 months.

All our products are produced in ISO 9002 certified manufacturing facilities.



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Ion exchange resins and polymeric adsorbents, as produced, contain by-products resulting from the manufacturing process. The user must determine the extent to which organic by-products must be removed for any particular use and establish techniques to assure that the appropriate level of purity is achieved for that use. The user must ensure compliance with all prudent safety standards and regulatory requirements governing the application. Except where specifically otherwise stated, Rohm and Haas Company does not recommend its ion exchange resins or polymeric adsorbents, as supplied, as being suitable or appropriately pure for any particular use. Consult your Rohm and Haas technical representative for further information. Acidic and basic regenerant solutions are corrosive and should be handled in a manner that will prevent eye and skin contact. Nitric acid and other strong oxidising agents can cause explosive type reactions when mixed with Ion Exchange resins. Proper design of process equipment to prevent rapid buildup of pressure is necessary if use of an oxidising agent such as nitric acid is contemplated. Before using strong oxidising agents in contact with Ion Exchange Resins, consult sources knowledgeable in the handling of these materials.

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