# Ion Exchange Resins For Cane Sugar Decolorization

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**Ion Exchange Resins For Cane**

Cane Sugar Refining with Ion Exchange Resins Decolorization Several techniques can be used for removing color from the sugar juice and they are subject to

continuous developments. The main ones being: • Activated carbon: Numerous types of activated carbon are available in the marketplace according to the precursor carbonaceous material (coal, wood,

**Table of Contents - Ion Exchange Resin Manufacturer**

Ion exchange solutions for sugar decolorization, demineralization and fractionation in the sugar and sweetener industry. Brochure. Cane sugar refining with ion exchange resins White Papers. Ion Exchange Resin - Pilot and Resin Testing Here to Help. Our always-ready technical support and service teams go the extra step to be your most trusted ...

**Sugar & Sweetener Grade Products - Ion Exchange Resin ...**

Ion exchange resins are utilised in mostly the decolorization of high ICUMSA solutions in the sugar cane industry. Macroporous and gel type cations, anions and adsorbents are used

to reduce the color and remove taste and odor. Demineralization and chromatographic resins are used for the purification steps as well.

**Resins for Food and Beverage Production | Jacobi Resinex**

Ion Exchange Resin consists of perfectly spherical beads of around 0.5mm in diameter and for sugar use they would be based on a styrene or acrylic polymer. The beads can be considered as sponges and the sugar solution will enter the beads and the colour will remain attached to the resin bead active sites.

**Sugar Refinery : Ion Exchange Batch Type**

For sugar syrups with less than 100 ICUMSA, styrenic ion exchange resins can be used such as TREVERLITE IXA310/CL. In case higher colour loads have to be removed, a combination of styrenic and acrylic ion exchange resins, such as TREVERLITE IXA310/CL and

TREVERLITE IXA510/CL, is advisable. Cane sugar decolourization.

**Sugar decolourization**

Fluence has more than 30 years of experience implementing food-processing solutions using ion exchange and adsorbent resins. Our innovative solutions are ideal for wine and fruit juice processing, as well as whey demineralization and cane sugar decolorizing.

**Food and Beverage Processing Solutions | Fluence**

Ion exchange resins are particularly well suited for the removal of ionic impurities for several reasons: the resins have high capacities for ions that are found in low concentrations, the resins are stable and readily regenerated, temperature effects are for the most part negligible, and the process is excellent for both large and small installations, for example, from home water softeners to huge utility installations.

**Ion Exchange Resins - ResinTech Inc.**

18 DECEMBER, 2017. December 18, 2017. By Kimberly Marshall. Ion exchange (IX) resins are often highly effective for removing hardness, alkalinity, chloride, mercury, and organics, among other contaminants. While they can offer some efficiencies over other treatment technologies, they also call for specific maintenance processes.

**What to Know About Ion Exchange Resin Regeneration**

Type 1 SBA resins are produced by the application of trimethylamine, which yields chloride ions (Cl – ), while Type 2 SBA resins are produced by the application of dimethylethanolamine, which yields hydroxide ions (OH – ). Weak base anion (WBA) exchange resins.

**What Is Ion Exchange Resin and**

**How Does It Work?**

An ion-exchange resin or ion-exchange polymer is a resin or polymer that acts as a medium for ion exchange. It is an insoluble matrix normally in the form of small microbeads, usually white or yellowish, fabricated from an organic polymer substrate. The beads are typically porous, providing a large surface area on and inside them the trapping of ions occurs along with the accompanying release of other ions, and thus the process is called ion exchange. There are multiple types of ion-exchange res

**Ion-exchange resin - Wikipedia**

AmberLite™ FPA900UPS Cl Ion Exchange Resin is a uniform particle size, macroporous, strong base (Type I) anion exchange resin. It has exceptional physical stability, excellent resistance to osmotic shock, and very good organic fouling resistance. It is ideally suited for cane sugar decolorization.

**AmberLite™ FPA900UPS Cl**

Ion exchange resin (IER) technology, on the other hand, is a cost-effective option that meets purification needs across many food processing schemes with minimal limitations. IER technology's solid polymers are capable of removing ions and organic contaminants in solutions that are passed through them.

**Ion exchange resins offer better purification of processed ...**

Sugar & Sweetners. SAC:Strongly Acidic Cation Exchange Resin; SBA:Strongly Basic Anion Exchange Resin; WAC:Weakly Acidic Ction Exchange Resin; WBA:Weakly Basic Anion Exchange Resin

**Sugar & Sweetners | Application | ION EXCHANGE RESINS**

Backed by 80 years of application development and years of extensive performance testing, our Amber series of resins are the most trusted ion exchange resin trade names in the

industry. Our innovations in ion exchange (IX) water treatment and separation have driven key improvements in reliability, productivity, efficiency, and safety.

**Amber Series - DuPont**

In the production of crystal suger and liquid sugar syrup, Lewatit allows the brown cane sugar to be turned into the beloved white product and ensures that sugar also tastes like sugar. Lewatit ion exchange resins are also relaible catalysts which are crucial for many chemical reactions. 1 2

**Ion exchange resins for water treatment by adsorption ...**

Various ion-exchange resins derived from sugar cane bagasse, waste paper, polyamide wastes, chitin, etc., were applied as adsorbents for removal of colour and other organics. 20−24 Colour-removal efficiency with these ion-exchange resins was comparable with that achieved using activated carbon.

**Sugar Cane Bagasse - an overview | ScienceDirect Topics**

Applexion® continuous ion exchange systems. Applexion® continuous ion exchange process offers the industry a truly continuous ion exchange system. Depending on the process, the number of cells can be adapted to optimize resin utilization and minimize system size while balancing overall capital investment and operating costs.

**Applexion® ion exchange technologies for large scale bio ...**

About cane sugar decoloration with Ion Exchange Resins . There are lots of colored substance during processing of cane sugar. Some like Flavonoids impurities, melanin,. c hlorophyll are naturally existed, other colored substance come from the cane sugar processing.. Activated carbon is usually used for cane sugar decoloration as the traditional method, and with the technology