

ADSORBENT ANION EXCHANGE RESIN TYPE I ACRYLIC MACROPOROUS CHLORIDE FORM

ResinTech SX-A60-A is a strong base anion resin intended for use in the sugar industry for decoloration and organic removal. It is supplied in the chloride form. The media's aliphatic elastic polymer structure allows for fast removal and desorption of high molecular size color forming hydrophilic molecules present in highly concentrated sugar syrups. The SX-A60-A has been designed to operate under high chemical and mechanical stress conditions such as highly colored sugar syrups (>1,000 ICUMSA*) and 65° Bx at 75°C.

APPLICATIONS

- Sugar syrup decoloration
- Natural juices decoloration
- Organic matter removal in water



TYPICAL PROPERTIES & PHYSICAL CHARACTERISTICS

Polymer Matrix	Acrylic/DVB
Ionic Form	Chloride
Fuctional Group	Quaternary Amine
Physical Form	Spherical Beads
Particle Size, US Mesh (microns)	16 to 50 (297 - 1190 μm)
Percent less than 50 mesh (300µm)	1
Minimum Sphericity (%)	90
Uniformity Coefficient	1.7
Temperature Limit	167°F (75°C)
Capacity (meq/mL)	0.85
Moisture Retention (%)	66 to 72
Shipping Weight	700 - 720 g/l
Color	White to Cream

CERTIFICATIONS

* International Commission for Uniform Methods of Sugar Analysis

** NSF/ANSI/CAN 61: Drinking Water System Components - Health Effects ^ Paragraph 21CFR173.25 of the Food Additives Regulations of the US FDA

- WQA Gold Seal**
- Kosher Certified
- Halal Certified
- FDA Compliance^

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The above graph shows the expected pressure loss of the SX-A60-A per meter of resin bed depth as a function of the flow rate at 60°C.



The above graph show the resin expansion characteristics of the SX-A60-A as function of the flow rate at 75°C as linear speed in m/h.

SUGAR SYRUP DECOLORATION

ResinTech SX-A60-A has a very high capacity for the adsorption of high molecular weight and long chain color formation molecules. For best performance, the influent stream should be well-filtered sugar syrup with no traces of any strong oxidizing agents used in the upstream process. For syrup with more than 1,000 ICUMSA it is recommended to use a double pass system through the SX-A60-A. For sugar

Revision 1.2 © 2020 ResinTech, Inc. syrups with less than 700 ICUMSA it is recommended to use a single pass through the SX-A60-A followed by a polisher filled with ResinTech RTS-0413-A (Polystyrene Strong Base Anion Adsorbent Resin).



Decoloration capacity based on a 2 BV/h flow rate with 1,000 mm resin bed depth. No engineering downgrade has been applied.



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