INNOVATEK®

STRONG ACID CATION EXCHANGE RESIN

Model: INK-100

Applications

- Water Softening and Pure Water Preparation
- Hydrometallurgy
- Sugar Refining
- Pharmaceuticals
- Glutamic Acid Preparation
- Dehydrating Agent
- Catalysts

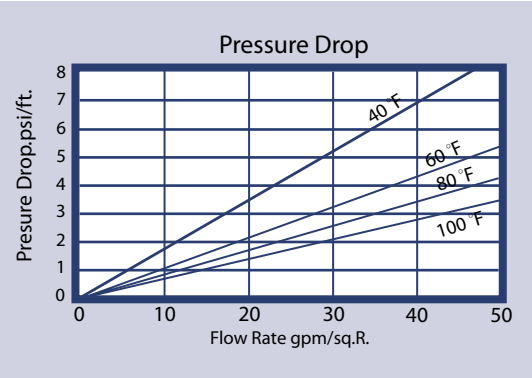
Description

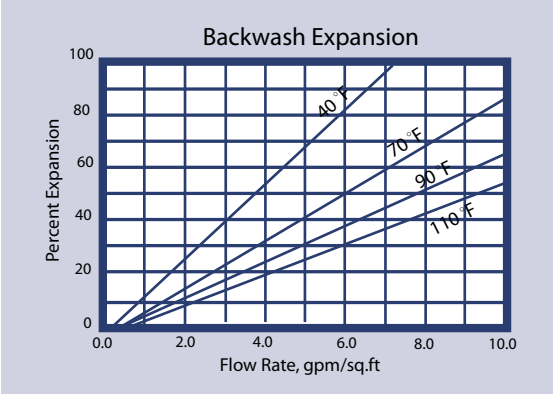
Model: INK-100 is a sort of cation exchange resin that has sulfonic group (-SO3H) in the styrene-diethylene benzene copolymer with 7% cross-linked degree. It is used mainly to soft hard water and produce pure water, as well as used in the hydro-metallurgy and sugar producing and medicine and no sodium glutamate industry, it can be used as catalyzer and dehydrating agent.

Features

- **High Ion Exchange Capacity**
  Effectively reduces water hardness and purifies water with high efficiency.
- **Stable Physical and Chemical Properties**
  Maintains stability under various operating conditions, ensuring long-term performance.
- **Versatile Industrial Applications**
  Suitable for multiple industries, including sugar refining, pharmaceuticals, and hydrometallurgy.
- **Uniform Particle Size**
  Consistent resin bead size ensures efficient water flow and minimal pressure drop.
- **Chemically Safe Composition**
  Designed with materials suitable for water treatment and industrial applications.

HYDRAULIC PROPERTIES





PRESSURE DROP

The graph above shows expected pressure loss per foot of bed depth as a function of flow rate, at various temperatures.

BACKWASH

After each cycle the resin bed should be backwashed at a rate that expands the bed 25 to 50 percent. This will remove any foreign matter and reclassify the bed. The graph below shows the expansion characteristics of INK-100 in the sodium form.

Typical Physical and Chemical Properties:

ITEMS	DATA
Appearance	Palm Yellow to burnt brown spherical grain
Ionic Form	Na^+
Moisture Content (%)	45 ~ 50
Total Exchange Capacity (mmol/g)	≥ 4.5
Total Exchange Capacity (mmol/ml)	≥ 1.9
Shipping Weight (g/ml)	0.77 ~ 0.87
True Density (g/ml)	1.250 ~ 1.290
Particle Size Range (%)	(0.315mm ~ 1.250mm) ≥ 95.0
Effective Size (mm)	0.400 ~ 0.700
Uniformity Coefficient	≤ 1.60
Sphericiity After Attrition (%)	≥ 90

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