

Model: INK-100F 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:

With a total exchange capacity of ≥4.50 mmol/g, this resin effectively softens hard water and produces pure water.

Robust Physical and Chemical Stability:

Exhibits excellent stability, ensuring durability and consistent performance across various applications.

Wide pH Range Compatibility:

Operates effectively within a pH range of 1 to 14, making it versatile for different water treatment needs.

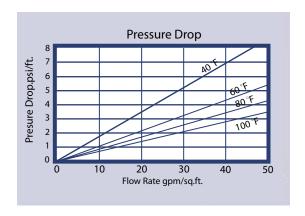
High Temperature Resistance:

Capable of withstanding operational temperatures up to 120°C in sodium form, suitable for hightemperature applications.

Low Swelling Property:

Demonstrates minimal swelling upon complete ion exchange conversion (Na to H, maintaining structural integrity.

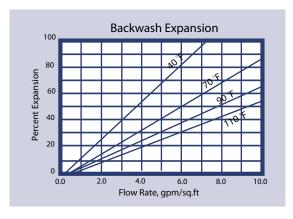
HYDRAULIC PROPERTIES





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-100F in the sodium form.

Typical Physical and Chemical Properties:

ITEMS	DATA
Appearance	Palm Yellow to burnt brown spherical grain
lonic 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
Lower Limit Size (%)	(<0.315mm) ≤ 1.0
Effective Size (mm)	0.400 ~ 0.700
Uniformity Coefficient	≤ 1.60
Sphericiity After Attrition (%)	≥ 90







