

INDION® FFIP

Description

INDION FFIP is a Type 1 strong base, unfunctional anion exchanger in bead form, containing trimethyl benzyl ammonium groups. It is based on cross linked polystyrene and has an isoporous structure. INDION FFIP has a very high basicity and is effective in

removing weak acids such as silica and carbon dioxide. INDION FFIP is recommended for use in two stage/multiple stage or mixed bed deionising units where high quality deionised water and lowest silica residuals are desired.

Characteristics.

| | | |
|--------------------------------|---|---|
| Appearance | : | Translucent red brown beads |
| Matrix | : | Styrene - EDMA copolymer |
| Functional Group | : | Benzyl trimethyl amine |
| Ionic form as supplied | : | Chloride |
| Total exchange capacity | : | 1.2 meq/ml, minimum |
| Moisture holding capacity | : | 47% - 55% |
| Shipping weight * | : | 680 kg/m ³ , approximately |
| Particle size range | : | 0.3 mm to 1.2 mm |
| > 1.2 mm | : | 5.0%, maximum |
| < 0.3 mm | : | 1.0%, maximum |
| Uniformity co-efficient | : | 1.7, maximum |
| Effective size | : | 0.45 mm to 0.55 mm |
| Maximum operating temperature | : | 60° C in OH form 90° C in Cl and other forms |
| Operating pH range | : | 0 to 14 |
| Volume change | : | Cl to OH, 10 - 15 % |
| Resistance to reducing agents | : | Good |
| Resistance to oxidizing agents | : | Generally good, chlorine should be absent |

* Weight of resin, as supplied, occupying 1 m³ in a unit after backwashing and draining.

Packing

| | | | |
|-----------------|------------|-----------------|----------------|
| HDPE Lined bags | 25/ 50 lts | LDPE bags | 1 cft / 25 lts |
| Super sack | 1000 lts | Super sack | 35 cft |
| MS drums | | Fiber drums | |
| with liner bags | 180 lts | with liner bags | 7 cft |

Storage

Ion exchange resins require proper care at all times. The resin must never be allowed to become dry. Regularly open the plastic bags and check the condition

of the resin when in storage. If not moist, add enough clean demineralised water and keep it in completely moist condition. Always keep the resin drum in the shade. Recommended storage temperature is between 20° C and 40° C.

Safety

Acid and alkali solutions used for regeneration are corrosive and should be handled in a manner that will prevent eye and skin contact. If any oxidising agents are used, necessary safety precautions should be observed to avoid accidents and damage to the resin.

INDION range of Ion Exchange resins are produced in a state-of-the-art ISO 9001 and ISO 14001 certified manufacturing facilities at Ankleshwar, in the state of Gujarat in India.

To the best of our knowledge the information contained in this publication is accurate. Ion Exchange (India) Ltd. maintains a policy of continuous development and reserves the right to amend the information given herein without notice.

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