INDION FFIP is a Type 1 strong base, unifunctional 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.

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Translucent red brown beads</td>
</tr>
<tr>
<td>Matrix</td>
<td>Styrene - EDMA copolymer</td>
</tr>
<tr>
<td>Functional Group</td>
<td>Benzyl trimethyl amine</td>
</tr>
<tr>
<td>Ionic form as supplied</td>
<td>Chloride</td>
</tr>
<tr>
<td>Total exchange capacity</td>
<td>1.2 meq/ml, minimum</td>
</tr>
<tr>
<td>Moisture holding capacity</td>
<td>47% - 55%</td>
</tr>
<tr>
<td>Shipping weight *</td>
<td>680 kg/m³, approximately</td>
</tr>
<tr>
<td>Particle size range</td>
<td>0.3 mm to 1.2 mm</td>
</tr>
<tr>
<td>&gt; 1.2 mm</td>
<td>5.0%, maximum</td>
</tr>
<tr>
<td>&lt; 0.3 mm</td>
<td>1.0%, maximum</td>
</tr>
<tr>
<td>Uniformity co-efficient</td>
<td>1.7, maximum</td>
</tr>
<tr>
<td>Effective size</td>
<td>0.45 mm to 0.55 mm</td>
</tr>
<tr>
<td>Maximum operating temperature</td>
<td>60°C in OH form</td>
</tr>
<tr>
<td></td>
<td>90°C in Cl and other forms</td>
</tr>
<tr>
<td>Operating pH range</td>
<td>0 to 14</td>
</tr>
<tr>
<td>Volume change</td>
<td>Cl to OH, 10 - 15 %</td>
</tr>
<tr>
<td>Resistance to reducing agents</td>
<td>Good</td>
</tr>
<tr>
<td>Resistance to oxidizing agents</td>
<td>Generally good, chlorine should be absent</td>
</tr>
</tbody>
</table>

* 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.

INDION is the registered trademark of Ion Exchange (India) Ltd.

ION EXCHANGE
Refreshing the Planet

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