INDION Indion GMW 11(GVI) is a mixed ion exchange resin. It is a mixture of macroporous weak base anion exchange resin and colour indicating strong cation exchange resin in a 1:1 volume ratio.

**Description**

INDION Indion GMW 11(GVI) is recommended in any non regenerable mixed bed application where removal of silica and carbonic acid is not required. INDION GMW 11(GVI) ensures reliable production of high quality water and where “as supplied” resin must have an absolute minimum of ionic and nonionic contamination. A colour indicator allows the visualisation of the exhaustion point of the resin.

**Applications**

INDION GMW 11(GVI) is recommended in any non regenerable mixed bed application where removal of silica and carbonic acid is not required. INDION GMW 11(GVI) ensures reliable production of high quality water and where “as supplied” resin must have an absolute minimum of ionic and nonionic contamination. A colour indicator allows the visualisation of the exhaustion point of the resin.

### Characteristics

#### Physical

- **Appearance**: Spherical beads
- **Shipping weight**: 710 kg/m³, approximately
- **Particle size range**
  - > 1.2 mm: 5.0%, maximum
  - < 0.3 mm: 1.0%, maximum
- **Uniformity co-efficient**: 1.7, maximum
- **Effective size**: 0.45 to 0.60 mm
- **Microscopic Examination**: Surface cracks not more than 5%

#### Chemical

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Cation resin</th>
<th>Anion resin</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Matrix</strong></td>
<td>Crosslinked polystyrene</td>
<td>Crosslinked polystyrene</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Gel</td>
<td>Macroporous</td>
</tr>
<tr>
<td><strong>Functional Group</strong></td>
<td>Sulphonic acid</td>
<td>Tertiary amine</td>
</tr>
<tr>
<td><strong>Total exchange capacity</strong></td>
<td>1.8 meq/ml (in Na form)</td>
<td>1.5 meq/ml</td>
</tr>
<tr>
<td><strong>Ionic conversion</strong></td>
<td>99% minimum in H form</td>
<td>80% minimum in free base form</td>
</tr>
<tr>
<td><strong>Moisture holding capacity</strong></td>
<td>55 - 60%</td>
<td>47 - 55%</td>
</tr>
<tr>
<td><strong>Thermal stability</strong></td>
<td>Up to 120°C</td>
<td>Up to 60°C</td>
</tr>
<tr>
<td><strong>Colour indicator</strong></td>
<td>Green (regenerated form)</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td>Violet (exhausted form)</td>
<td></td>
</tr>
<tr>
<td><strong>Chemical stability</strong></td>
<td>Stable in pH range 0 - 14</td>
<td>Resistant to oxidizing and reducing agents</td>
</tr>
</tbody>
</table>

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

PVC Jars with inner liner bags 5 / 6 lts
LDPE lined bags 0.5 cft / 1 cft / 25 lts
HDPE lined bags 25 / 50 lts
HDPE drums 50 / 100 / 180 lts

Storage

Ion exchange resins require proper care at all times. The resins must never be allowed to become dry. The drums should therefore be always kept in shade. Since INDION GMW 11 (GVI) is supplied in highly regenerated condition, any exposure to atmospheric air must be avoided.

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.

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Refreshing the Planet

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