DIAION™ WA21J is a polyamine type weakly basic anion exchange resin. It has higher total anion exchange capacity with high regeneration efficiency and excellent mechanical strength. A wide range of applications, especially in a field of removal of strong mineral acids in water treatment, is recommended.

<table>
<thead>
<tr>
<th>Product</th>
<th>Grade Name</th>
<th>Type</th>
<th>Matrix</th>
<th>Functional Group</th>
<th>Ionic Form</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>DIAION™ WA21J</td>
<td>Weak Base Anion</td>
<td>Styrene-DVB, Porous</td>
<td>Polyamine</td>
<td>Free Base</td>
</tr>
</tbody>
</table>

**Specification**

- Whole Bead Count: 95 min.
- Total Exchange Capacity: 2.0 min.
- Water Content: 40 - 52%
- Particle Size Distribution on 1180 μm: 5 max.
- Particle Size Distribution thr. 300 μm: 1 max.
- Effective Size: 0.40 mm
- Uniformity Coefficient: 1.6 max.

**Typical Properties**

- Shipping Density: 650 g/L
- Mean Particle Size: 610 μm
- Particle Density: 1.07 g/mL
- Total Swelling (FB to Cl-): 23%

**Recommended Operating Conditions**

- Maximum Operating Temperature: 100 ºC
- Operating pH Range: 0 - 9
- Minimum Bed Depth: 800 mm
- Service Flow Rate: 10 - 40 m/h
- Regenerant: NaOH
- Regenerant Concentration: NaOH 1 - 4%
- Regenerant Level: 120% of ionic load
- Regenerant Flow Rate: 2 - 6 m/h
- Total Rince Requirement: 5 - 10 BV
Hydraulic Characteristics

The approximate pressure drop at various temperatures and flow rates for each meter of bed depth of DIAION™ WA21J resin in normal down flow operation is shown in the graphs below.

![Pressure Drop Graph](image)

**Fig. 1 Pressure Drop of WA21J**

![Bed Expansion Graph](image)

**Fig. 2 Bed Expansion of WA21J**

Notice

This information are given in good faith but without warranty, and this also applies where proprietary rights of third parties are involved. The application, use and processing of our products are beyond our control and therefore your own responsibility.