DIAION™ PA418 is a porous type strongly basic anion exchange resin. It is type II resin and has a 9% cross-linkages. A wide range of applications, especially in a field of manufacturing pure water and waste water treatment, is recommended.

### Product

<table>
<thead>
<tr>
<th>Grade Name</th>
<th>DIAION™ PA418</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Strong Base Anion</td>
</tr>
<tr>
<td>Matrix</td>
<td>Styrene-DVB, Porous</td>
</tr>
<tr>
<td>Functional Group</td>
<td>Type II (dimethylethanol ammonium groups)</td>
</tr>
<tr>
<td>Ionic Form</td>
<td>Cl⁻</td>
</tr>
</tbody>
</table>

### Specification

- Whole Bead Count: 95 min.
- Salt Splitting Capacity: meq/mL 1.3 min.
- Water Content: % 38 - 44
- Particle Size Distribution on 1180 μm: % 5 max.
- Particle Size Distribution thr. 300 μm: % 1 max.
- Effective Size: mm 0.40 min.
- Uniformity Coefficient: - 1.6 max.

### Typical Properties

- Shipping Density: g/L 670
- Mean Particle Size: μm 710
- Particle Density: g/mL 1.11
- Total Swelling (Cl⁻ to OH⁻): % 11

### Recommended Operating Conditions

- Maximum Operating Temperature: ºC 60 (Cl⁻)
- Operating pH Range: 0 - 14
- Minimum Bed Depth: mm 800
- Service Flow Rate: m/h 10 - 60
- Regenerant: NaOH
- Regenerant Concentration: % NaOH 2 - 8
- Regenerant Level: g/L 50 - 200
- Regenerant Flow Rate: m/h 2 - 8
- Total Rince Requirement: BV 2 - 10

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Hydraulic Characteristics

The approximate pressure drop at various temperatures and flow rates for each meter of bed depth of DIAION™ PA418 resin in normal down flow operation is shown in the graphs below.

![Graph 1: Pressure Drop of PA418](image1)

![Graph 2: Bed Expansion of PA418](image2)

Notice

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