DIAION™ PK220L is a porous type strongly acidic cation exchange resin. It has 10% cross-linkages and excellent properties. A wide range of applications, especially in a field of manufacturing and processing pure water, is recommended.

### Product

<table>
<thead>
<tr>
<th>Grade Name</th>
<th>DIAION™ PK220L</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Strong Acid Cation</td>
</tr>
<tr>
<td>Matrix</td>
<td>Styrene-DVB, Porous</td>
</tr>
<tr>
<td>Functional Group</td>
<td>Sulfonic Acid</td>
</tr>
<tr>
<td>Ionic Form</td>
<td>Na⁺</td>
</tr>
</tbody>
</table>

### Specification

- **Whole Bead Count**: - 95 min.
- **Salt Splitting Capacity**: meq/mL 1.9 min.
- **Water Content**: % 41 - 47
- **Particle Size Distribution on 1180 μm**: % 5 max.
- **Particle Size Distribution thr. 425 μm**: % 1 max.
- **Effective Size**: mm 0.45 min.
- **Uniformity Coefficient**: - 1.6 max.

### Typical Properties

- **Shipping Density**: g/L 800
- **Mean Particle Size**: μm 720
- **Particle Density**: g/mL 1.29
- **Total Swelling (Na⁺ to H⁺)**: % 8

### Recommended Operating Conditions

- **Maximum Operating Temperature**: °C 120
- **Operating pH Range**: 0 - 14
- **Minimum Bed Depth**: mm 800
- **Service Flow Rate**: m/h 10 - 60
- **Regenerant**: HCl
  - **H₂SO₄**: 1 - 4
- **Regenerant Concentration**: % HCl 4 - 10
  - **H₂SO₄**: 1 - 4
- **Regenerant Level**: g/L 50 - 200
- **Regenerant Flow Rate**: m/h 2 - 10
- **Total Rince Requirement**: BV 2 - 10
Hydraulic Characteristics

The approximate pressure drop at various temperatures and flow rates for each meter of bed depth of DIAION™ PK220L resin in normal down flow operation is shown in the graphs below.

![Graph 1: Pressure Drop of PK220L](image1)

**Fig. 1 Pressure Drop of PK220L**

![Graph 2: Bed Expansion of PK220L](image2)

**Fig. 2 Bed Expansion of PK220L**

Notice

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