DIAION™ SK1BLH is a gel type strongly acidic cation exchange resin. It has standard cross-linkages and excellent properties. A wide range of applications, especially in a field of manufacturing and processing pure water, 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>DIAION™ SK1BLH</td>
<td>Strong Acid Cation</td>
<td>Styrene-DVB, Gel</td>
<td>Sulfonic acid</td>
<td>H⁺</td>
<td></td>
</tr>
</tbody>
</table>

**Specification**

- Whole Bead Count: 90 min.
- Salt Splitting Capacity: meq/mL 1.7 min.
- Water Content: % 50 - 60
- 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.
- Ionic Form Conversion (H⁺): eq% 95 min.

**Typical Properties**

- Shipping Density: g/L 790
- Mean Particle Size: μm 710
- Particle Density: g/mL 1.20
- Total Swelling (Na⁺ to H⁺): % 9

**Recommended Operating Conditions**

- Maximum Operating Temperature: ºC 120
- Operating pH Range: 0 - 14
- Minimum Bed Depth: mm 800
- Service Flow Rate: m/h 10 - 40
- Regenerant: HCl/H₂SO₄
- Regenerant Concentration: % HCl 4 - 10
- H₂SO₄ 1 - 4
- Regenerant Level: g/L 30 - 150
- 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™ SK1BLH resin in normal down flow operation is shown in the graphs below.

![Graph of Pressure Drop](image)

**Fig. 1 Pressure Drop of SK1BLH**

![Graph of Bed Expansion](image)

**Fig. 2 Bed Expansion of SK1BLH**

**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.