

Product Data Sheet

DIAION™ PK212LH

DIAION™ PK212LH is a porous type strongly acidic cation exchange resin. It has 6% cross-linkages and excellent properties. A wide range of applications, especially in a field of manufacturing and processing pure water and catalysts, is recommended.

Product

| | |
|------------------|---------------------|
| Grade Name | DIAION™ PK212LH |
| Type | Strong Acid Cation |
| Matrix | Styrene-DVB, Porous |
| Functional Group | Sulfonic Acid |
| Ionic Form | H ⁺ |

Specification

| | | |
|--|--------|-----------|
| Whole Bead Count | - | 95 min. |
| Salt Splitting Capacity | meq/mL | 1.3 min. |
| Water Content | % | 55 - 65 |
| 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 Form | eq% | 95 min. |

Typical Properties

| | | |
|---|------|------|
| Shipping Density | g/L | 750 |
| Mean Particle Size | µm | 780 |
| Particle Density | g/mL | 1.16 |
| Total Swelling (Na ⁺ to H ⁺) | % | 10 |

Recommended Operating Conditions

| | | |
|-------------------------------|------|--------------------------------------|
| Maximum Operating Temperature | °C | 120 |
| Operating pH Range | | 0 - 14 |
| Minimum Bed Depth | mm | 800 |
| Service Flow Rate | BV/h | 10 - 60 |
| Regenerant | | HCl |
| | | H ₂ SO ₄ |
| Regenerant Concentration | % | HCl 4 - 10 |
| | | H ₂ SO ₄ 1 - 4 |
| Regenerant Level | g/L | 50 - 200 |
| Regenerant Flow Rate | BV/h | 2 - 10 |
| Total Rinse Requirement | BV | 2 - 10 |

1 BV(Bed Volume)=1 m³/m³-resin



Hydraulic Characteristics

The approximate pressure drop at various temperatures and flow rates for each meter of bed depth of DIAION™ PK212LH resin in normal down flow operation is shown in the graphs below.

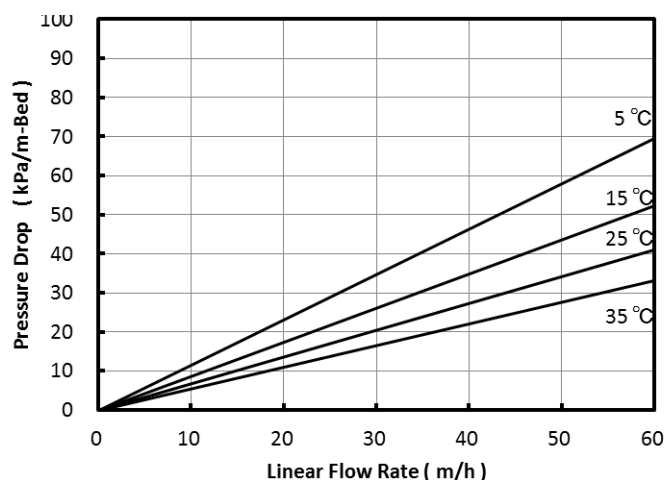


Fig. 1 Pressure Drop of PK212LH

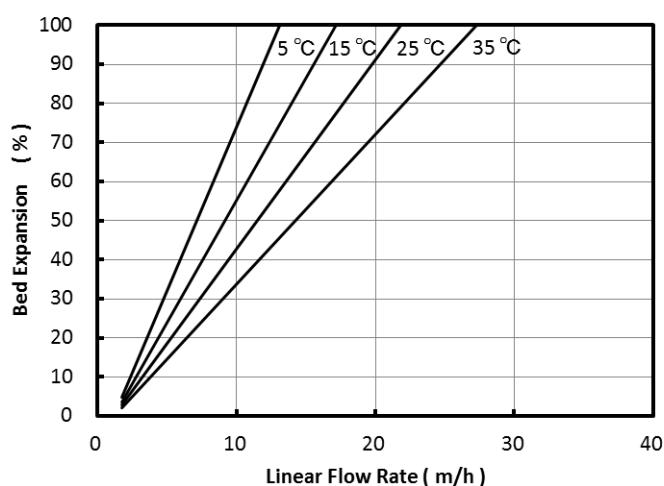


Fig. 2 Bed Expansion of PK212LH

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