

Product Data Sheet

DIAION™ HPA25L

DIAION™ HPA25L is a highly porous type strongly basic anion exchange resin. It has a higher cross-linkages and higher porous properties. A wide range of applications, especially in a field of enzyme purification as enzyme carriers and industrial separation of large molecules, is recommended.

Product

| | | |
|------------------|------------------------------------|--|
| Grade Name | DIAION™ HPA25L | |
| Type | Strong Base Anion | |
| Matrix | Styrene-DVB, Highly Porous | |
| Functional Group | Type I (trimethyl ammonium groups) | |
| Ionic Form | Cl ⁻ | |

Specification

| | | |
|--|--------|-----------|
| Whole Bead Count | - | 95 min. |
| Salt Splitting Capacity | meq/mL | 0.5 min. |
| Water Content | % | 58 - 68 |
| Particle Size Distribution thr. 300 µm | % | 5 max. |
| Effective Size | mm | 0.25 min. |
| Uniformity Coefficient | - | 1.6 max. |

Typical Properties

| | | |
|--|------|------|
| Shipping Density | g/L | 680 |
| Mean Particle Size | µm | 470 |
| Particle Density | g/mL | 1.06 |
| Total Swelling (Cl ⁻ to OH ⁻) | % | 2 |

Recommended Operating Conditions

| | | |
|-------------------------------|-----|--|
| Maximum Operating Temperature | °C | 80 (Cl ⁻) 60 (OH ⁻) |
| 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 Rinse Requirement | BV | 2 - 10 |



Hydraulic Characteristics

The approximate pressure drop at various temperatures and flow rates for each meter of bed depth of DIAION™ HPA25L resin in normal down flow operation is shown in the graphs below.

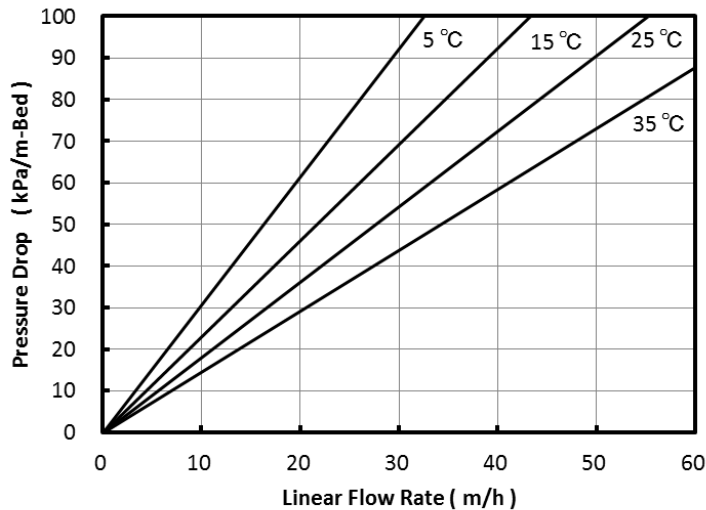


Fig. 1 Pressure Drop of HPA25L

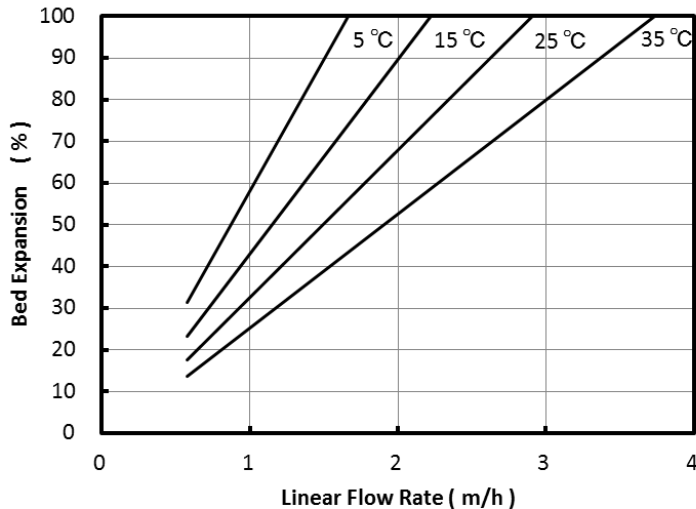


Fig. 2 Bed Expansion of HPA25L

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