

Product Data Sheet

DIAION™ UBK16

DIAION™ UBK16 is a cation exchange resin with a uniform particle size. It has 16% cross-linkages and excellent properties. A wide range of applications, especially in a field of pharmaceuticals, is recommended.

Product

| | | |
|------------------|--------------------|--|
| Grade Name | DIAION™ UBK16 | |
| Type | Strong Acid Cation | |
| Matrix | Styrene-DVB, Gel | |
| Functional Group | Sulfonic acid | |
| Ionic Form | Na ⁺ | |

Specification

| | | |
|-------------------------|--------|----------|
| Whole Bead Count | - | 90 min. |
| Salt Splitting Capacity | meq/mL | 2.3 min. |
| Water Content | % | 27 - 37 |
| Mean Particle Size | μm | 600 ± 50 |
| Uniformity Coefficient | - | 1.2 max. |

Typical Properties

| | | |
|---|------|------|
| Shipping Density | g/L | 870 |
| Particle Density | g/mL | 1.38 |
| Total Swelling (Na ⁺ to H ⁺) | % | 6 |

Recommended Operating Conditions

| | | |
|-------------------------------|------|--|
| Maximum Operating Temperature | °C | 120 |
| Operating pH Range | | 0 - 14 |
| Minimum Bed Depth | mm | 800 |
| Service Flow Rate | BV/h | 10 - 40 |
| Regenerant | | HCl H ₂ SO ₄ |
| Regenerant Concentration | % | HCl 4 - 10 H ₂ SO ₄ 1 - 4 |
| Regenerant Level | g/L | 30 - 150 |
| 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™ UBK16 resin in normal down flow operation is shown in the graphs below.

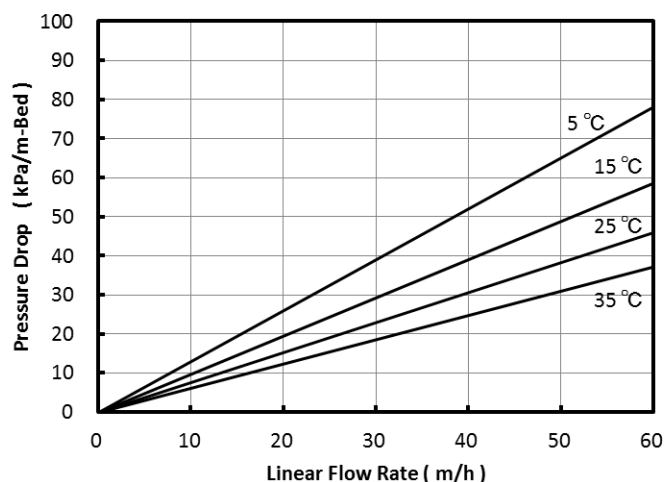


Fig. 1 Pressure Drop of UBK16

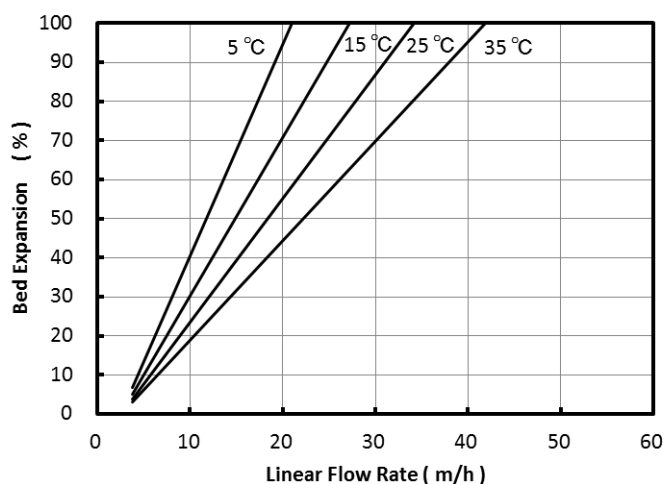


Fig. 2 Bed Expansion of UBK16

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