

Product Data Sheet

DIAION™ WK40L

DIAION™ WK40L is an acrylic-type weakly acidic cation exchange resin. It has a higher total capacity than metacrylic type resins. A wide range of applications, especially in a field of dealkylation, demineralization and waste water treatment, is recommended.

Product

| | |
|------------------|------------------|
| Grade Name | DIAION™ WK40L |
| Type | Weak Acid Cation |
| Matrix | Acrylic, Porous |
| Functional Group | Carboxylic Acid |
| Ionic Form | H ⁺ |

Specification

| | | |
|--|--------|-----------|
| Whole Bead Count | - | 95 min. |
| Total Capacity | meq/mL | 4.4 min. |
| Water Content | % | 41 - 48 |
| Particle Size Distribution on 1180 μm | % | 10 max. |
| Particle Size Distribution thr. 425 μm | % | 3 max. |
| Effective Size | mm | 0.45 min. |
| Uniformity Coefficient | - | 1.6 max. |

Typical Properties

| | | |
|---|------|------|
| Shipping Density | g/L | 770 |
| Mean Particle Size | μm | 640 |
| Particle Density | g/mL | 1.19 |
| Total Swelling (H ⁺ to Na ⁺) | % | 73 |

Recommended Operating Conditions

| | | |
|-------------------------------|-----------------|-----------|
| Maximum Operating Temperature | °C | 120 |
| Operating pH Range | | 4 - 14 |
| Minimum Bed Depth | mm | 800 |
| Service Flow Rate | m/h | 5 - 40 |
| Regenerant | | HCl |
| Regenerant Concentration | % | HCl 1 - 5 |
| Regenerant Level | % of ionic load | 110 |
| Regenerant Flow Rate | m/h | 2 - 6 |
| Total Rinse Requirement | BV | 10 - 20 |



Hydraulic Characteristics

The approximate pressure drop at various temperatures and flow rates for each meter of bed depth of DIAION™ WK40L resin in normal down flow operation is shown in the graphs below.

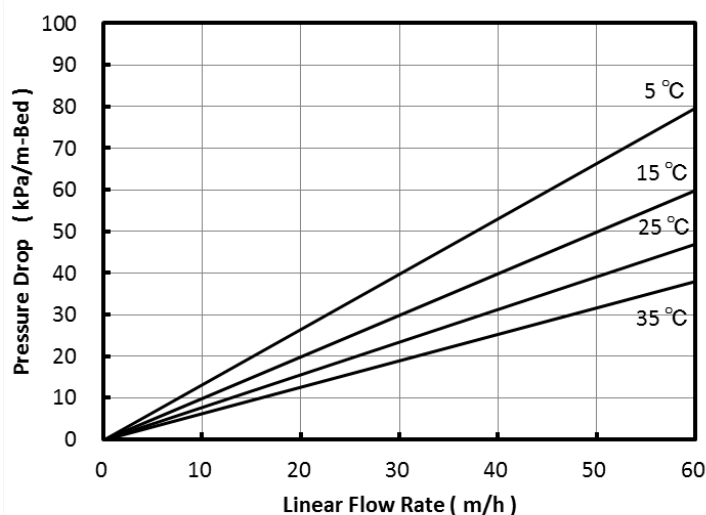


Fig. 1 Pressure Drop of WK40L

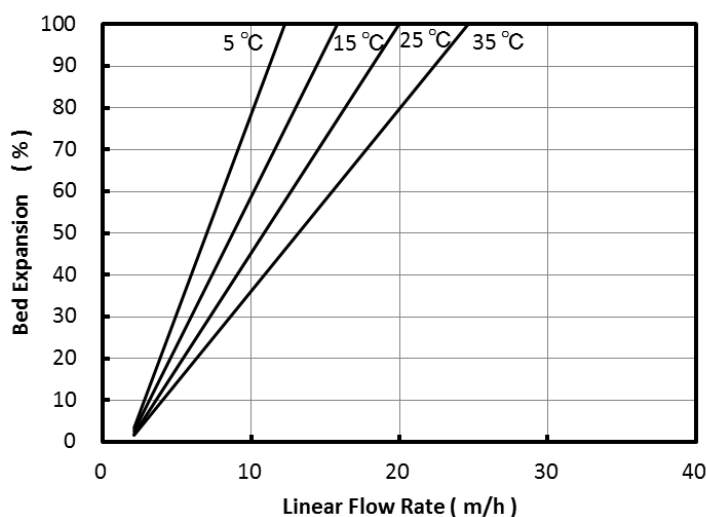


Fig. 2 Bed Expansion of WK40L

Notice

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