DIAION™ WK10S

DIAION™ WK10S is a small particle methacrylic-type weakly acidic cation exchange resin. It has carboxylic acid functionality with high regeneration efficiency. A wide range of applications, especially in a field of purification of pharmaceuticals, foods and organic chemicals, is recommended.

| Product | | , |
|---|-----------------|----------------------------|
| Grade Name | | DIAION TM WK10S |
| Туре | | Weak Acid Cation |
| Matrix | | Methacrylic, Porous |
| Functional Group | | Carboxylic Acid |
| Ionic Form | | H [†] |
| Specification | | |
| Whole Bead Count | - | 95 min. |
| Total Capacity | meq/mL | 2.5 min. |
| Water Content | % | 50 - 60 |
| Effective Size | mm | 0.15 min. |
| Uniformity Coefficient | _ | 1.6 max. |
| Typical Properties | | |
| Shipping Density | g/L | 720 |
| Mean Particle Size | μm | 230 |
| Particle Density | g/mL | 1.14 |
| Total Swelling (H ⁺ to Na ⁺) | % | 42 |
| Recommended Operating Conditions | | |
| Maximum Operating Temperature | °C | 150 |
| Operating pH Range | | 5 - 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 |







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Hydraulic Characteristics

The approximate pressure drop at various temperatures and flow rates for each meter of bed depth of DIAIONTM WK10S resin in normal down flow operation is shown in the graphs below.

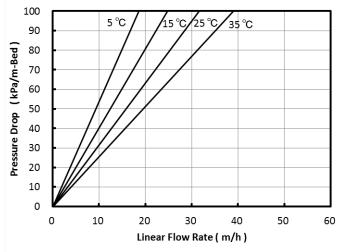


Fig. 1 Pressure Drop of WK10S

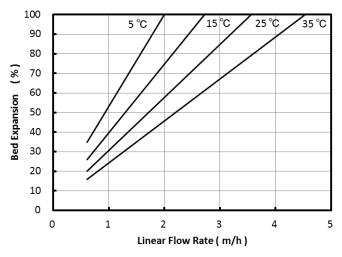


Fig. 2 Bed Expansion of WK10S

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