Product Data Sheet

# DIAION™ SKT110

DIAION™ SKT110 is a gel type strongly acidic cation exchange resin. It has a 10% cross-linkages and shows lower TOC leakage. It is recommended for UPW application.

## Product

| | |
|---|---|
| Grade Name | DIAION™ SKT110 |
| Type | Strong Acid Cation |
| Matrix | Styrene-DVB, Gel |
| Functional Group | Sulfonic acid |
| Ionic Form | $H^+$ |

## Specification

| | | |
|---|---|---|
| Color and Shape | - | Brown Translucent Beads |
| Salt Splitting Capacity | meq/mL | 1.9 min. |
| Water Content | % | 40 - 50 |
| Particle Size Distribution on 1180 µm | % | 5 max. |
| Particle Size Distribution thr. 300 µm | % | 1 max. |
| Effective Size | mm | 0.40 min. |
| Uniformity Coefficient | - | 1.6 max. |
| Ionic Form Conversion ($H^+$) | eq% | 99.9 min. |
| ΔTOC | ppb | 20 max. |
| Outlet Resistivity | MΩ·cm | 12 min. |

## Typical Properties

| | | |
|---|---|---|
| Shipping Density | g/L | 800 |
| Mean Particle Size | µm | 750 |
| Particle Density | g/mL | 1.23 |
| Total Swelling ($Na^+$ to $H^+$) | % | 8 |

## 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 |
| | | $H_2SO_4$ |
| Regenerant Concentration | % | HCl 4 - 10 |
| | | $H_2SO_4$ 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 $m^3/m^3$-resin

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## Hydraulic Characteristics

The approximate pressure drop at various temperatures and flow rates for each meter of bed depth of DIAION™ SKT110 resin in normal down flow operation is shown in the graphs below.

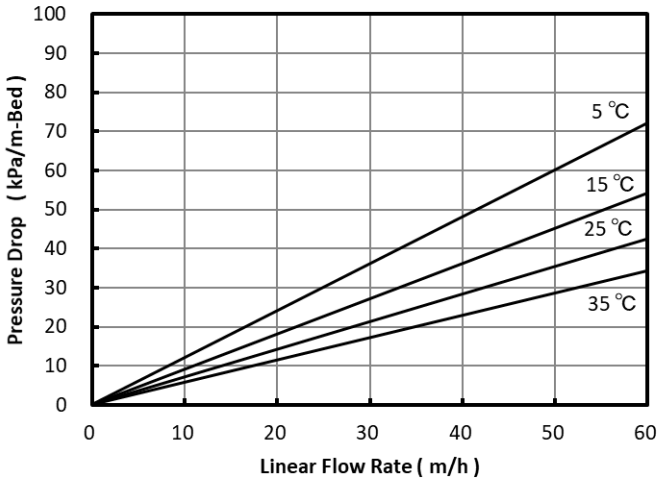


**Fig. 1 Pressure Drop of SKT110**

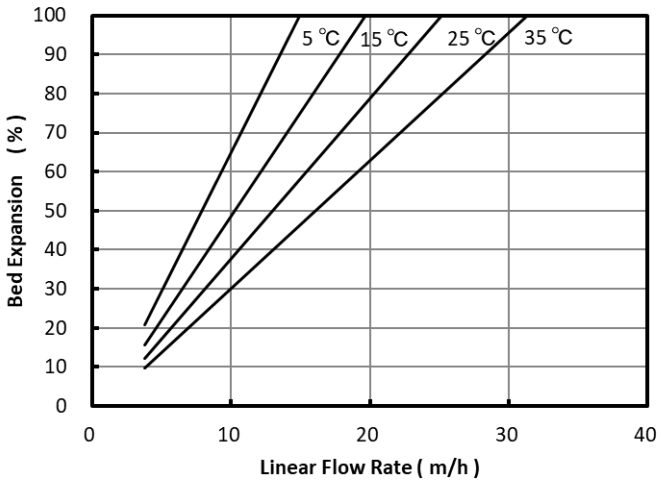


**Fig. 2 Bed Expansion of SKT110**

## Notice