Product Data Sheet

# DIAION™ CPA12OH

DIAION™ CPA12OH is a porous type strongly basic anion exchange resin. It has a 6% cross-linkages and excellent properties. It is recommended for condensate polishing in power plants.

## Product

| | |
|---|---|
| Grade Name | DIAION™ CPA12OH |
| Type | Strong Base Anion |
| Matrix | Styrene-DVB, Porous |
| Functional Group | Type I (trimethyl ammonium groups) |
| Ionic Form | $OH^-$ |

## Specification

| | | |
|---|---|---|
| Whole Bead Count | - | 95 min. |
| Salt Splitting Capacity | meq/mL | 0.9 min. |
| Water Content | % | 58 - 68 |
| Particle Size Distribution on 1180 µm | % | 5 max. |
| Particle Size Distribution thr. 425 µm | % | 2 max. |
| Effective Size | mm | 0.500 - 0.710 |
| Uniformity Coefficient | - | 1.4 max. |
| Ionic Form Conversion OH Form | eq% | 90 min. |
| Ionic Form Conversion $CO_3$ Form | eq% | 10 max. |
| Ionic Form Conversion Cl Form | eq% | 0.2 max. |

## Typical Properties

| | | |
|---|---|---|
| Shipping Density | g/L | 660 |
| Mean Particle Size | µm | 700 |
| Particle Density | g/mL | 1.07 |
| Total Swelling ($Cl^-$ to $OH^-$) | % | 23 |

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## Recommended Operating Conditions

| | | |
|---|---|---|
| Maximum Operating Temperature | °C | 80 ($Cl^-$) |
| | | 60 ($OH^-$) |
| Operating pH Range | | 0 - 14 |
| Minimum Bed Depth | mm | 450 |
| Service Flow Rate | m/h | Fast rinse 5 - 60 |
| | | Condensate polishing 40 - 150 |
| Regenerant | | NaOH |
| Regenerant Concentration | % | NaOH 2 - 8 |
| Regenerant Level | g/L | 50 - 200 |
| Regenerant Flow Rate | m/h | 1 - 10 |
| Total Rinse Requirement | BV | 2 - 5 |

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## Hydraulic Characteristics

The approximate pressure drop at various temperatures and flow rates for each meter of bed depth of DIAION™ CPA12OH resin in normal down flow operation is shown in the graphs below.

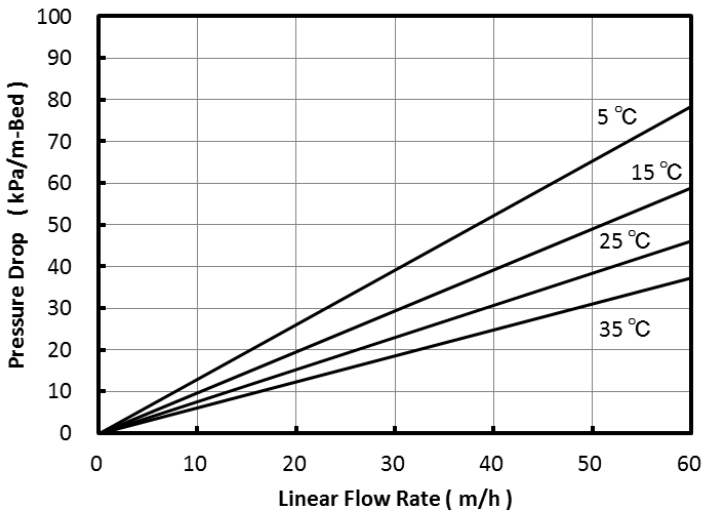


**Fig. 1 Pressure Drop of CPA12OH**

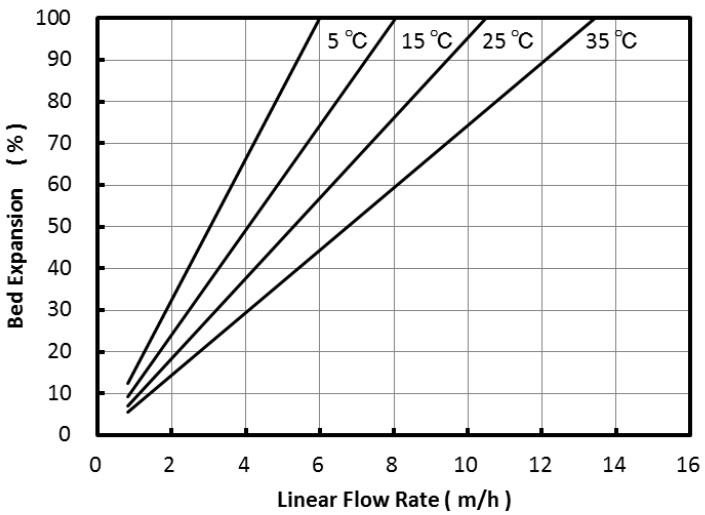


**Fig. 2 Bed Expansion of CPA12OH**

## Notice

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