

Product Data Sheet

DIAION™ SAF12A

DIAION™ SAF12A is a gel type strongly basic anion exchange resin. It has a standard cross-linkages and low-odor and low leachable properties. A wide range of applications, especially in a field of manufacturing drinking water and refining sugar liquors, is recommended.

Product

| | | |
|------------------|------------------------------------|--|
| Grade Name | DIAION™ SAF12A | |
| Type | Strong Base Anion | |
| Matrix | Styrene-DVB, Gel | |
| Functional Group | Type I (trimethyl ammonium groups) | |
| Ionic Form | Cl ⁻ | |

Specification

| | | |
|--|--------|-----------|
| Salt Splitting Capacity | meq/mL | 1.2 min. |
| Water Content | % | 48 - 55 |
| 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. |
| Amine Effluent | ppb | 20 max. |

Typical Properties

| | | |
|--|------|------|
| Shipping Density | g/L | 680 |
| Mean Particle Size | μm | 640 |
| Particle Density (Cl ⁻) | g/mL | 1.08 |
| Total Swelling (Cl ⁻ to OH ⁻) | % | 24 |

Recommended Operating Conditions

| | | |
|-------------------------------|-----|--|
| Maximum Operating Temperature | °C | 80 (Cl ⁻) 60 (OH ⁻) |
| Operating pH Range | | 0 - 14 |
| Minimum Bed Depth | mm | 800 |
| Service Flow Rate | m/h | 10 - 60 |
| Regenerant | | NaOH |
| Regenerant Concentration | % | NaOH 2 - 8 |
| Regenerant Level | g/L | 50 - 200 |
| Regenerant Flow Rate | m/h | 2 - 8 |
| Total Rinse Requirement | BV | 2 - 10 |

Hydraulic Characteristics

The approximate pressure drop at various temperatures and flow rates for each meter of bed depth of DIAION™ SAF12A (Cl form) resin in normal down flow operation is shown in the graphs below.

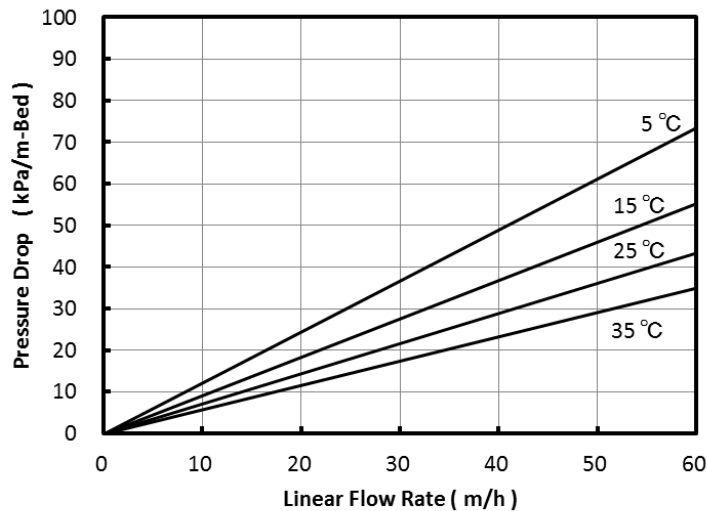


Fig. 1 Pressure Drop of SAF12A

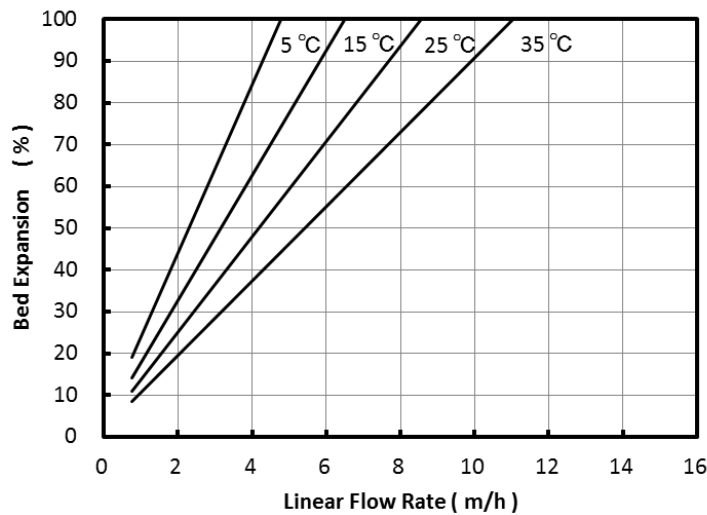


Fig. 2 Bed Expansion of SAF12A

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