

Product Data Sheet

DIAION™ SA12A

DIAION™ SA12A is a gel type strongly basic anion exchange resin. It has a standard cross-linkages and excellent properties. A wide range of applications, especially in a field of manufacturing and processing pure water, is recommended.

Product

| | |
|------------------|------------------------------------|
| Grade Name | DIAION™ SA12A |
| Type | Strong Base Anion |
| Matrix | Styrene-DVB, Gel |
| Functional Group | Type I (trimethyl ammonium groups) |
| Ionic Form | Cl ⁻ |

Specification

| | | |
|--|--------|-----------|
| Whole Bead Count | - | 90 min. |
| Salt Splitting Capacity | meq/mL | 1.3 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. |

Typical Properties

| | | |
|--|------|------|
| Shipping Density | g/L | 670 |
| Mean Particle Size | µm | 650 |
| Particle Density | 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 |



Phone: 212-204-0075
 Email: info@pyvot.tech
 Web: www.pyvot.tech

Hydraulic Characteristics

The approximate pressure drop at various temperatures and flow rates for each meter of bed depth of DIAION™ SA12A resin in normal down flow operation is shown in the graphs below.

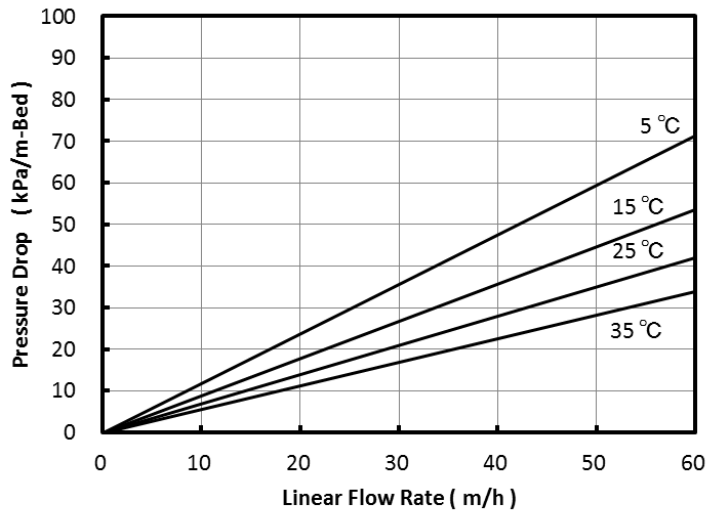


Fig. 1 Pressure Drop of SA12A

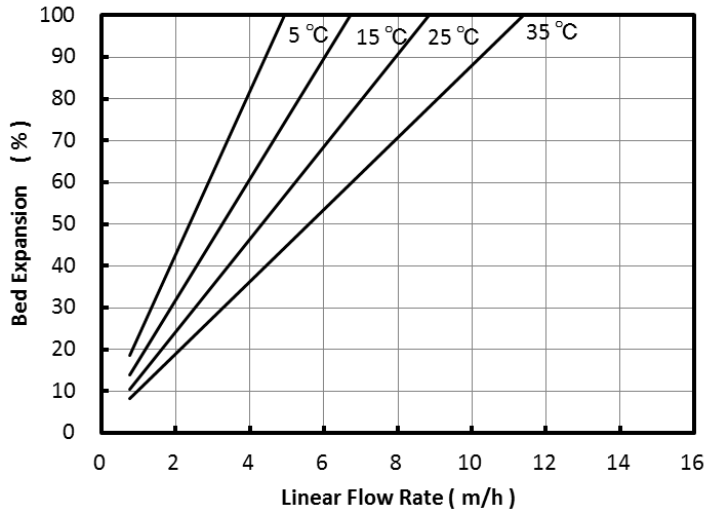


Fig. 2 Bed Expansion of SA12A

DIAION™ SA12A

Operational Capacity Data

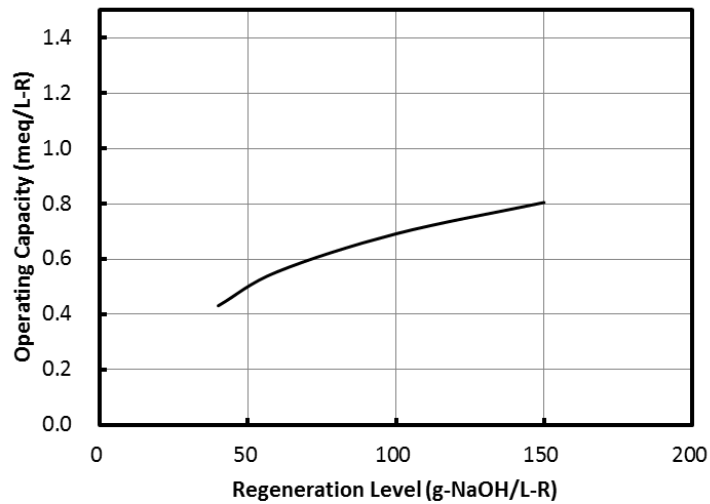


Fig. 3 Operational Capacity Data of SA12A
Regenerant : 4 % NaOH

Notice

This information are given in good faith but without warranty, and this also applies where proprietary rights of third parties are involved. The application, use and processing of our products are beyond our control and therefore your own responsibility.



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