

## Product Data Sheet

**DIAION™ SA20AOH**

DIAION™ SA20AOH is a gel type strongly basic anion exchange resin. It is type II resin and 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™ SA20AOH                           |
| Type             | Strong Base Anion                         |
| Matrix           | Styrene-DVB, Gel                          |
| Functional Group | Type II (dimethylethanol ammonium groups) |
| Ionic Form       | OH <sup>-</sup>                           |

**Specification**

|                                                   |        |           |
|---------------------------------------------------|--------|-----------|
| Whole Bead Count                                  | -      | 90 min.   |
| Salt Splitting Capacity                           | meq/mL | 0.9 min.  |
| Water Content                                     | %      | 50 - 60   |
| 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 Conversion (OH <sup>-</sup> )               | eq%    | 90 min.   |
| Ionic Conversion (CO <sub>3</sub> <sup>2-</sup> ) | eq%    | 10 max.   |
| Ionic Conversion (Cl <sup>-</sup> )               | eq%    | 1 max.    |

**Typical Properties**

|                                                      |      |      |
|------------------------------------------------------|------|------|
| Shipping Density                                     | g/L  | 690  |
| Mean Particle Size                                   | μm   | 670  |
| Particle Density                                     | g/mL | 1.08 |
| Total Swelling (Cl <sup>-</sup> to OH <sup>-</sup> ) | %    | 24   |



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**DIAION™ SA20AOH****Recommended Operating Conditions**

|                               |     |                                                |
|-------------------------------|-----|------------------------------------------------|
| Maximum Operating Temperature | °C  | 60 (Cl <sup>-</sup> )<br>40 (OH <sup>-</sup> ) |
| 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                                         |



# DIAION™ SA20AOH

## Hydraulic Characteristics

The approximate pressure drop at various temperatures and flow rates for each meter of bed depth of DIAION™ SA20AOH resin in normal down flow operation is shown in the graphs below.

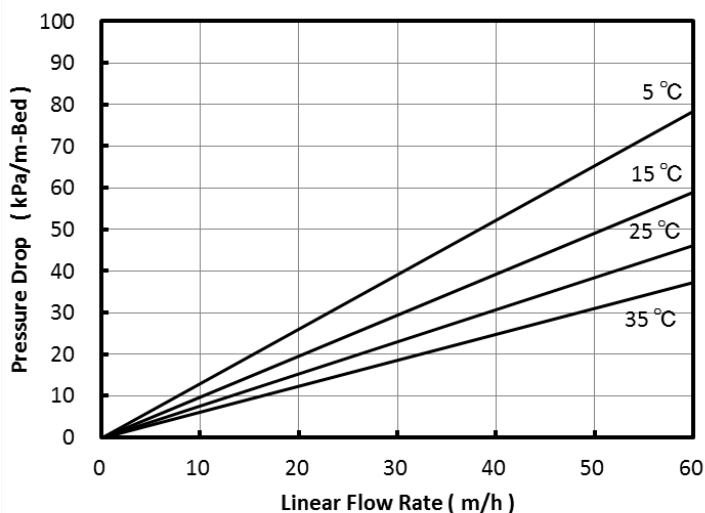


Fig. 1 Pressure Drop of SA20AOH

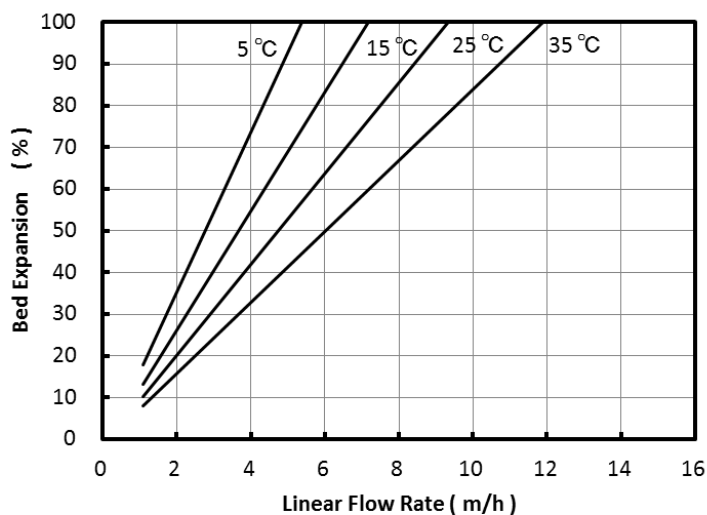


Fig. 2 Bed Expansion of SA20AOH

## Notice

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