

## Product Data Sheet

**DIAION™ PA418L**

DIAION™ PA418L is a porous type strongly basic anion exchange resin. It is type II resin and has a 9% cross-linkages. A wide range of applications, especially in a field of manufacturing pure water and waste water treatment, is recommended.

**Product**

|                  |                                           |  |
|------------------|-------------------------------------------|--|
| Grade Name       | DIAION™ PA418L                            |  |
| Type             | Strong Base Anion                         |  |
| Matrix           | Styrene-DVB, Porous                       |  |
| Functional Group | Type II (dimethylethanol ammonium groups) |  |
| Ionic Form       | Cl <sup>-</sup>                           |  |

**Specification**

|                                        |        |           |
|----------------------------------------|--------|-----------|
| Whole Bead Count                       | -      | 95 min.   |
| Salt Splitting Capacity                | meq/mL | 1.3 min.  |
| Water Content                          | %      | 38 - 44   |
| Particle Size Distribution on 1180 μm  | %      | 5 max.    |
| Particle Size Distribution thr. 425 μm | %      | 5 max.    |
| Effective Size                         | mm     | 0.45 min. |
| Uniformity Coefficient                 | -      | 1.6 max.  |

**Typical Properties**

|                                                      |      |      |
|------------------------------------------------------|------|------|
| Shipping Density                                     | g/L  | 680  |
| Mean Particle Size                                   | μm   | 710  |
| Particle Density                                     | g/mL | 1.11 |
| Total Swelling (Cl <sup>-</sup> to OH <sup>-</sup> ) | %    | 11   |

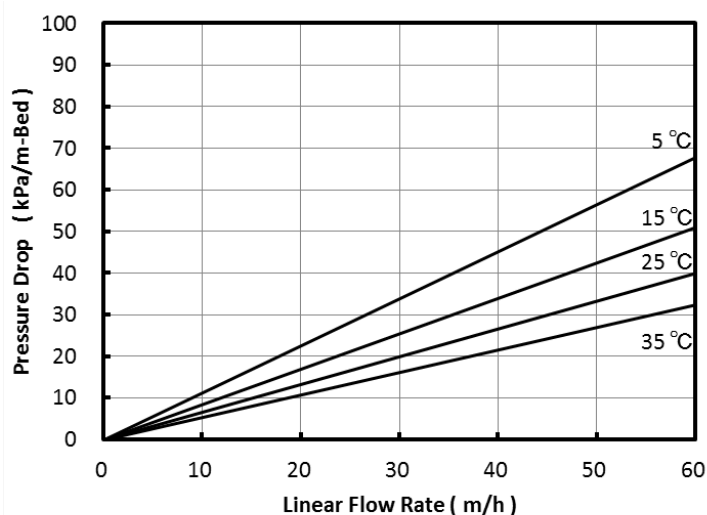
**Recommended Operating Conditions**

|                               |     |                                                |
|-------------------------------|-----|------------------------------------------------|
| 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                                         |

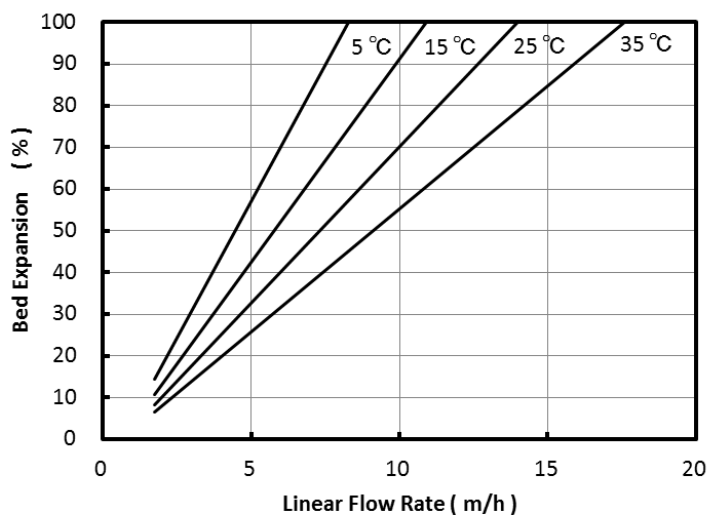


### Hydraulic Characteristics

The approximate pressure drop at various temperatures and flow rates for each meter of bed depth of DIAION™ PA418L resin in normal down flow operation is shown in the graphs below.



**Fig. 1 Pressure Drop of PA418L**



**Fig. 2 Bed Expansion of PA418L**

### Notice

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