

## Product Data Sheet

**DIAION™ WK11**

DIAION™ WK11 is a methacrylic-type weakly acidic cation exchange resin. It is a higher capacity grade than DIAION™ WK10. A wide range of applications, especially in a field of purification of pharmaceuticals, foods and organic chemicals, is recommended.

**Product**

Grade Name	DIAION™ WK11	
Type	Weak Acid Cation	
Matrix	Methacrylic, Porous	
Functional Group	Carboxylic Acid	
Ionic Form	H <sup>+</sup>	

**Specification**

Whole Bead Count	-	95 min.
Total Capacity	meq/mL	2.9 min.
Water Content	%	45 - 52
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	620
Particle Density	g/mL	1.14
Total Swelling (H <sup>+</sup> to Na <sup>+</sup> )	%	63

**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.



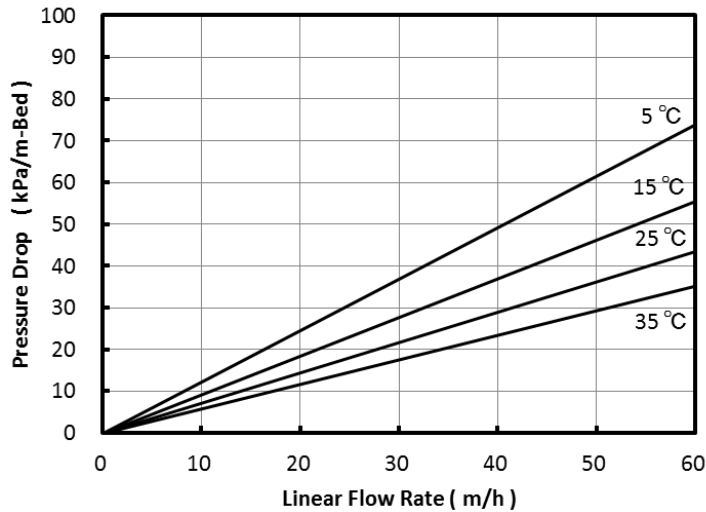
**Recommended Operating Conditions**

Maximum Operating Temperature	°C	150
Operating pH Range		5 - 14
Minimum Bed Depth	mm	800
Service Flow Rate	m/h	5 - 40
Regenerant		HCl
Regenerant Concentration	%	HCl 1 - 5
Regenerant Level	% of ionic load	110
Regenerant Flow Rate	m/h	2 - 6
Total Rinse Requirement	BV	10 - 20

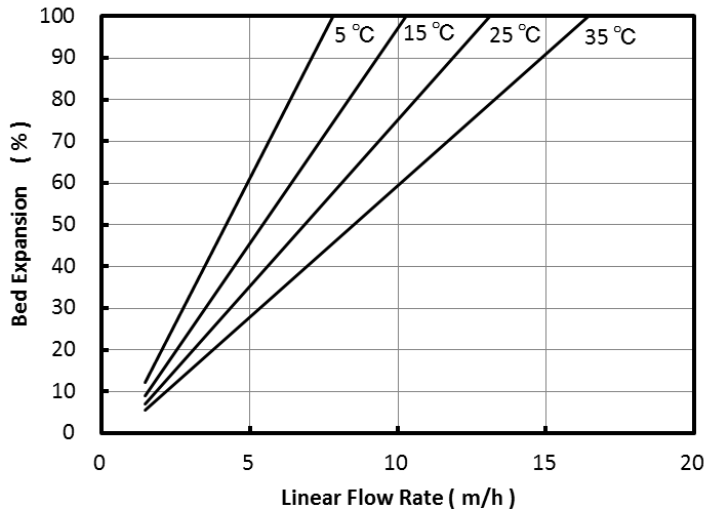


### Hydraulic Characteristics

The approximate pressure drop at various temperatures and flow rates for each meter of bed depth of DIAION™ WK11 resin in normal down flow operation is shown in the graphs below.



**Fig. 1 Pressure Drop of WK11**



**Fig. 2 Bed Expansion of WK11**

### 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.