

## Product Data Sheet

## DIAION™ WK10

DIAION™ WK10 is a methacrylic-type weakly acidic cation exchange resin. It has carboxylic acid functionality with high regeneration efficiency. A wide range of applications, especially in a field of purification of pharmaceuticals, foods and organic chemicals, is recommended.

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**Product**


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Grade Name	DIAION™ WK10	
Type	Weak Acid Cation	
Matrix	Methacrylic, Porous	
Functional Group	Carboxylic Acid	
Ionic Form	H <sup>+</sup>	

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**Specification**


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Whole Bead Count	-	95 min.
Total Capacity	meq/mL	2.5 min.
Water Content	%	53 - 59
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.

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**Typical Properties**


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Shipping Density	g/L	630
Mean Particle Size	μm	590
Particle Density	g/mL	1.13
Total Swelling (H <sup>+</sup> to Na <sup>+</sup> )	%	47

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**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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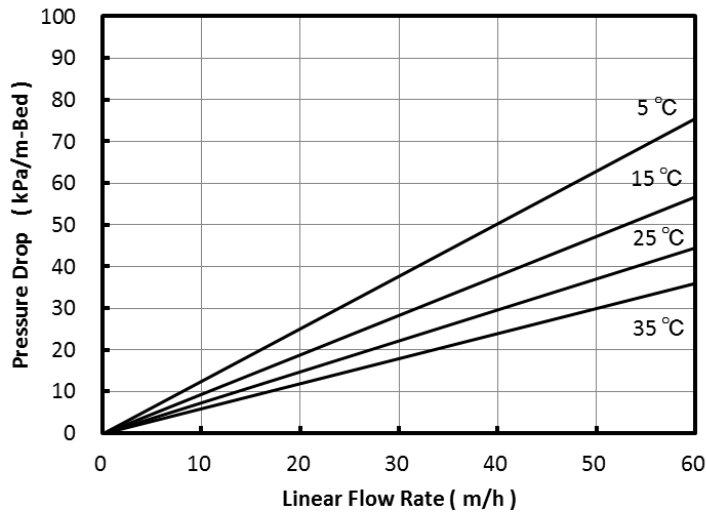
**Recommended Operating Conditions**

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

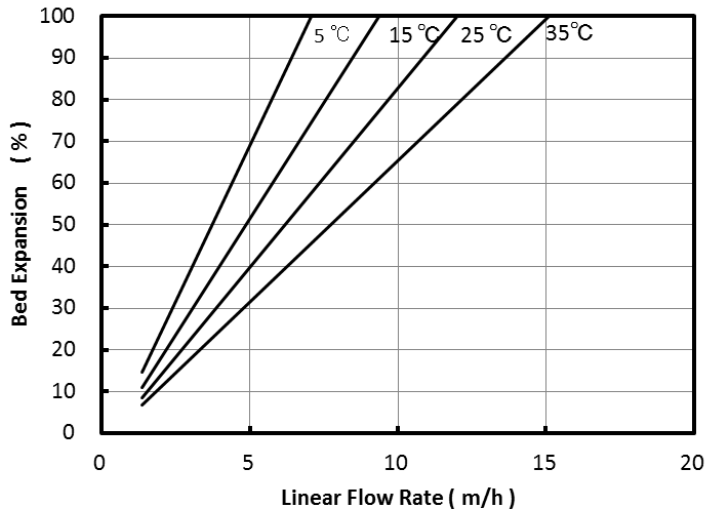


### Hydraulic Characteristics

The approximate pressure drop at various temperatures and flow rates for each meter of bed depth of DIAION™ WK10 resin in normal down flow operation is shown in the graphs below.



**Fig. 1 Pressure Drop of WK10**



**Fig. 2 Bed Expansion of WK10**

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