

Product Data Sheet

DIAION™ WK40L

DIAION™ WK40L is an acrylic-type weakly acidic cation exchange resin. It has a higher total capacity than methacrylic type resins. A wide range of applications, especially in a field of dealkylation, demineralization and waste water treatment, is recommended.

Product

Grade Name	DIAION™ WK40L	
Type	Weak Acid Cation	
Matrix	Acrylic, Porous	
Functional Group	Carboxylic Acid	
Ionic Form	H ⁺	

Specification

Whole Bead Count	-	95 min.
Total Capacity	meq/mL	4.4 min.
Water Content	%	41 - 48
Particle Size Distribution on 1180 μm	%	10 max.
Particle Size Distribution thr. 425 μm	%	3 max.
Effective Size	mm	0.45 min.
Uniformity Coefficient	-	1.6 max.

Typical Properties

Shipping Density	g/L	770
Mean Particle Size	μm	640
Particle Density	g/mL	1.19
Total Swelling (H ⁺ to Na ⁺)	%	73

Recommended Operating Conditions

Maximum Operating Temperature	°C	120
Operating pH Range		4 - 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™ WK40L resin in normal down flow operation is shown in the graphs below.

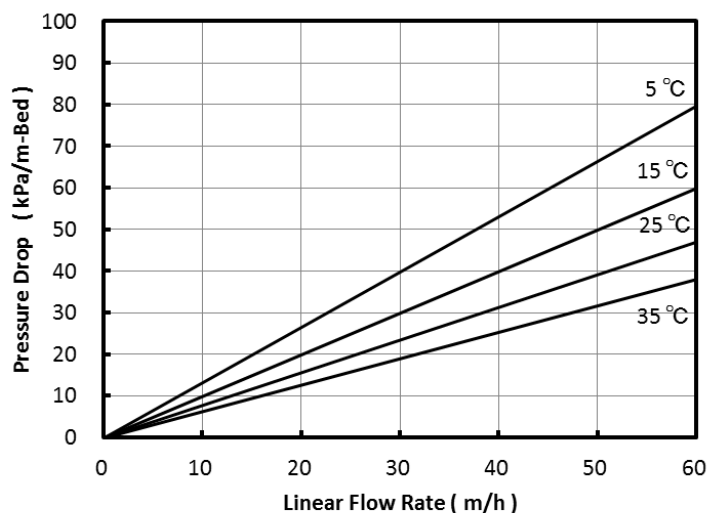


Fig. 1 Pressure Drop of WK40L

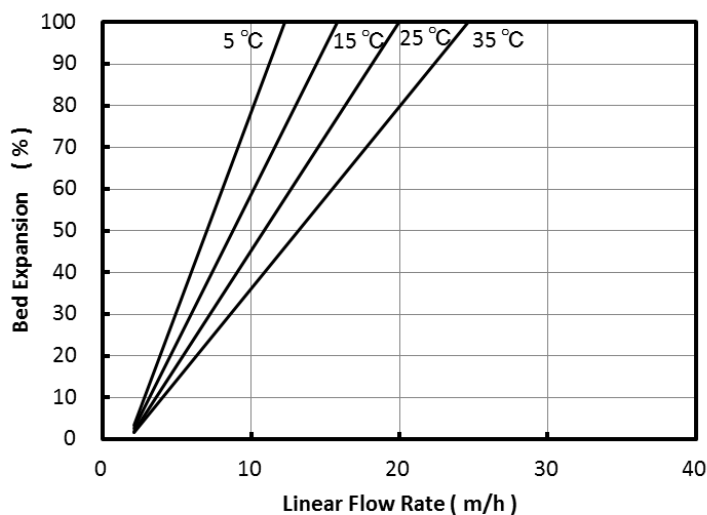


Fig. 2 Bed Expansion of WK40L

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