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.

Product		
Grade Name		DIAION [™] WK10
Туре		Weak Acid Cation
Matrix		Methacrylic, Porous
Functional Group		Carboxylic Acid
Ionic Form		H ⁺
Specification		
Whole Bead Count	-	95 min.
Total Capacity	meq/mL	2.5 min.
Water Content	%	52 - 58
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	630
Mean Particle Size	μm	590
Particle Density	g/mL	1.13
Total Swelling (H ⁺ to Na ⁺)	%	47
Recommended Operating Condit	ions	
Maximum Operating Temperature	°C	150
Operating pH Range		5 - 14
Minimum Bed Depth	mm	800
Service Flow Rate	m/h	5 - 40
Regenerant		HCI
Regenerant Concentration	%	HCl 1 - 5
Regenerant Level	% of ionic load	110
Regenerant Flow Rate	m/h	2 - 6
Total Rinse Requirement	BV	10 - 20







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Hydraulic Characteristics

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

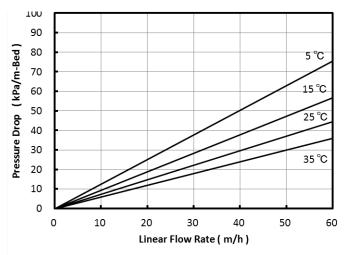


Fig. 1 Pressure Drop of WK10

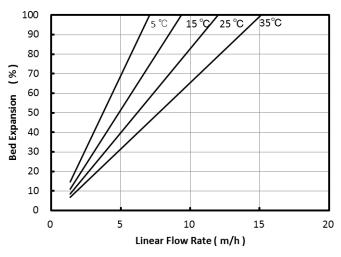


Fig. 2 Bed Expansion of WK10

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