DIAION™ WK10S

DIAION™ WK10S is a small particle 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 TM WK10S
Туре		Weak Acid Cation
Matrix		Methacrylic, Porous
Functional Group		Carboxylic Acid
lonic Form		H ⁺
Specification		
Whole Bead Count	-	95 min.
Total Capacity	meq/mL	2.5 min.
Water Content	%	50 - 60
Effective Size	mm	0.15 min.
Uniformity Coefficient	-	1.6 max.
Typical Properties		
Shipping Density	g/L	720
Mean Particle Size	μm	230
Particle Density	g/mL	1.14
Total Swelling (H ⁺ to Na ⁺)	%	42
Recommended Operating Conditions		
Maximum Operating Temperature	°C	150
Operating pH Range		5 - 14
Minimum Bed Depth	mm	800
Service Flow Rate	BV/h	5 - 40
Regenerant		HCI
Regenerant Concentration	%	HCl 1 - 5
Regenerant Level	% of ionic load	110
Regenerant Flow Rate	BV/h	2 - 6
Total Rinse Requirement	BV	10 - 20

1 BV(Bed Volume)=1 m³/m³-resin



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Hydraulic Characteristics

The approximate pressure drop at various temperatures and flow rates for each meter of bed depth of DIAIONTM WK10S resin in normal down flow operation is shown in the graphs below.

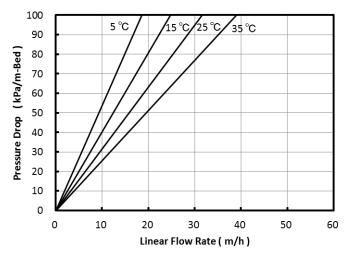


Fig. 1 Pressure Drop of WK10S

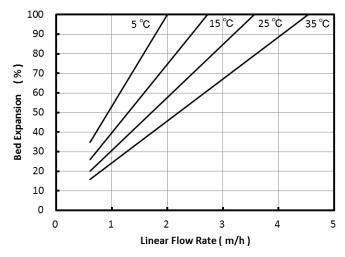


Fig. 2 Bed Expansion of WK10S

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