Product Data Sheet 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.

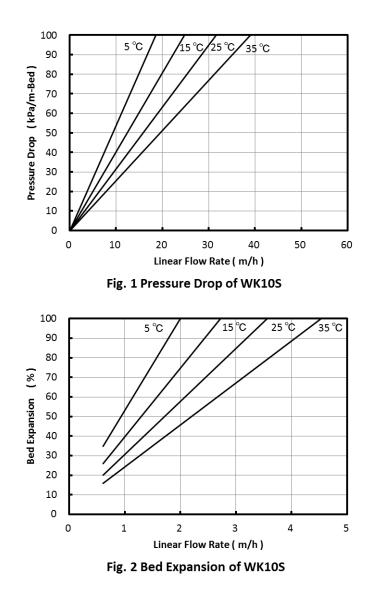
Product		
Grade Name		DIAION [™] WK10S
Туре		Weak Acid Cation
Matrix		Methacrylic, Porous
Functional Group		Carboxylic Acid
Ionic Form		H^{+}
Specification		
Whole Bead Count	-	95 min.
Total Capacity	meq/mL	2.5 min.
Water Content	%	50 - 60
Effective Size	mm	0.15 min.
Uniformity Coefficient	-	1.6 max.
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 Condit	ions	
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 $DIAION^{TM}$ WK10S resin in normal down flow operation is shown in the graphs below.



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