DIAION[™] PK228L

DIAION™ PK228L is a porous type strongly acidic cation exchange resin. It has 14% cross-linkages and excellent properties. A wide range of applications, especially in a field of manufacturing and processing pure water, is recommended.

Product		
Grade Name		DIAION TM PK228L
Туре		Strong Acid Cation
Matrix		Styrene-DVB, Porous
Functional Group		Sulfonic Acid
Ionic Form		Na ⁺
Specification		
Whole Bead Count	-	95 min.
Salt Splitting Capacity	meq/mL	2.05 min.
Water Content	%	37 - 43
Particle Size Distribution on 1180 μm	%	5 max.
Particle Size Distribution thr. 425 μm	%	1 max.
Effective Size	mm	0.45 min.
Uniformity Coefficient	-	1.6 max.
Typical Properties		
Shipping Density	g/L	810
Mean Particle Size	μm	730
Particle Density	g/mL	1.32
Total Swelling (Na ⁺ to H ⁺)	%	5
Recommended Operating Condition	ons	
Maximum Operating Temperature	°C	120
Operating pH Range		0 - 14
Minimum Bed Depth	mm	800
Service Flow Rate	BV/h	10 - 60
Regenerant		HCI
		H_2SO_4
Regenerant Concentration	%	HCl 4 - 10
		H ₂ SO ₄ 1 - 4
Regenerant Level	g/L	50 - 200
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Regenerant Flow Rate	BV/h	2 - 10

1 BV(Bed Volume)=1 m³/m³-resin

Hydraulic Characteristics

The approximate pressure drop at various temperatures and flow rates for each meter of bed depth of DIAIONTM PK228L resin in normal down flow operation is shown in the graphs below.

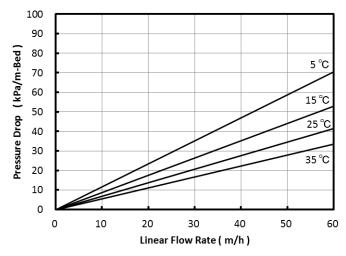


Fig. 1 Pressure Drop of PK228L

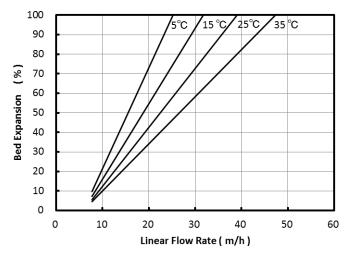


Fig. 2 Bed Expansion of PK228L

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