DIAION™ PK212LH

DIAION™ PK212LH is a porous type strongly acidic cation exchange resin. It has 6% cross-linkages and excellent properties. A wide range of applications, especially in a field of manufacturing and processing pure water and catalysts, is recommended.

Product		
Grade Name		DIAION [™] PK212LH
Туре		Strong Acid Cation
Matrix		Styrene-DVB, Porous
Functional Group		Sulfonic Acid
lonic Form		H ⁺
Specification		
Whole Bead Count	-	95 min.
Salt Splitting Capacity	meq/mL	1.3 min.
Water Content	%	55 - 65
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.
Ionic Form Conversion H Form	eq%	95 min.
Typical Properties		
Shipping Density	g/L	750
Mean Particle Size	μm	780
Particle Density	g/mL	1.16
Total Swelling (Na ⁺ to H ⁺)	%	10
Recommended Operating Conditions		
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
Regenerant Flow Rate	BV/h	2 - 10
Total Rinse Requirement	BV	2 - 10
	1	BV(Bed Volume)=1 m ³ /m ³ -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 PK212LH resin in normal down flow operation is shown in the graphs below.

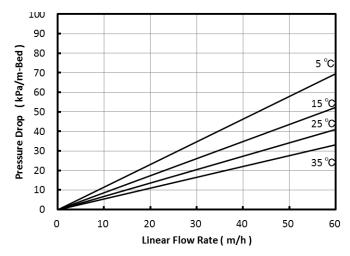


Fig. 1 Pressure Drop of PK212LH

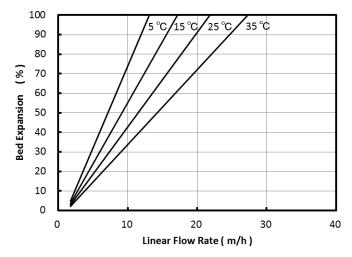


Fig. 2 Bed Expansion of PK212LH

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