DIAION[™] HPAN10

DIAION[™] HPAN10 is a highly porous type strongly basic anion exchange resin. It has a higher crosslinkages and higher porous properties. It is recommended for crud-removal application in nuclear power plants.

Product		
Grade Name		DIAION [™] HPAN10
Туре		Strong Base Anion
Matrix		Styrene-DVB, Highly Porous
Functional Group	Ту	pe I (trimethyl ammonium groups)
Ionic Form		OH
Specification		
Whole Bead Count	_	95 min.
Salt Splitting Capacity	meq/mL	0.45 min.
Water Content	%	68 - 73
Particle Size Distribution thr. 300 μ m	%	1 max.
Effective Size	mm	0.30 min.
Uniformity Coefficient	-	1.6 max.
Ionic Form Conversion OH Form	eq%	85 min.
Ionic Form Conversion CO ₃ Form	eq%	15 max.
Ionic Form Conversion Cl Form	eq%	0.2 max.
Metal Content Ca	mg/L	5 max.
Metal Content Pb	mg/L	5 max.
Metal Content Fe	mg/L	20 max.
Metal Content Cu	mg/L	5 max.
Elution Amount of TOC	mg/L	50 max.
Turbidity	ppm	100 max.
Typical Properties		
Shipping Density	g/L	690
Mean Particle Size	μm	430
Particle Density	g/mL	1.05
Max. Resin Strength (Squash Method)	N/particle	3.6
Min. Resin Strength (Squash Method)	N/particle	0.5
Ave. Resin Strength (Squash Method)	N/particle	1.1
Total Swelling (Cl ⁻ to OH ⁻)	%	8



Product Data Sheet DIAION[™] HPAN10

Recommended Operating Conditions

Maximum Operating Temperature	S°	80 (Cl ⁻)
		60 (OH ⁻)
Operating pH Range		0 - 14
Minimum Bed Depth	mm	200
Service Flow Rate	m/h	10 - 60
Regenerant		NaOH
Regenerant Concentration	%	NaOH 2 - 8
Regenerant Level	g/L	50 - 200
Regenerant Flow Rate	m/h	2 - 8
Total Rince Requirement	BV	2 - 10



Product Data Sheet DIAION[™] HPAN10

Hydraulic Characteristics

The approximate pressure drop at various temperatures and flow rates for each meter of bed depth of $DIAION^{TM}$ HPAN10 resin in normal down flow operation is shown in the graphs below.



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