

Product Data Sheet

DIAION™ RCP145H

DIAION™ RCP145H is a modified highly porous type strongly acidic cation exchange resin. It has resistivity for higher temperature. It is recommended for catalysts applications.

Product

Grade Name	DIAION™ RCP145H	
Type	Strong Acid Cation	
Matrix	Modified Styrene-DVB, Porous	
Functional Group	Sulfonic Acid	
Ionic Form	H ⁺	

Specification

Whole Bead Count	-	95 min.
Salt Splitting Capacity	meq/mL	0.8 min.
Water Content	%	61 - 71
Particle Size Distribution on 1180 µm	%	5 max.
Particle Size Distribution thr. 300 µm	%	1 max.
Effective Size	mm	0.40 min.
Uniformity Coefficient	-	1.6 max.
Ionic Form Conversion H Form	eq%	95 min.

Typical Properties

Shipping Density	g/L	740
Mean Particle Size	µm	680
Particle Density	g/mL	1.22
Total Swelling (Na ⁺ to H ⁺)	%	5

Recommended Operating Conditions

Maximum Operating Temperature	°C	150
Operating pH Range		0 - 14
Minimum Bed Depth	mm	800
Service Flow Rate	BV/h	10 - 60
Regenerant		HCl H ₂ SO 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 m³/m³-resin



Hydraulic Characteristics

The approximate pressure drop at various temperatures and flow rates for each meter of bed depth of DIAION™ RCP145H resin in normal down flow operation is shown in the graphs below.

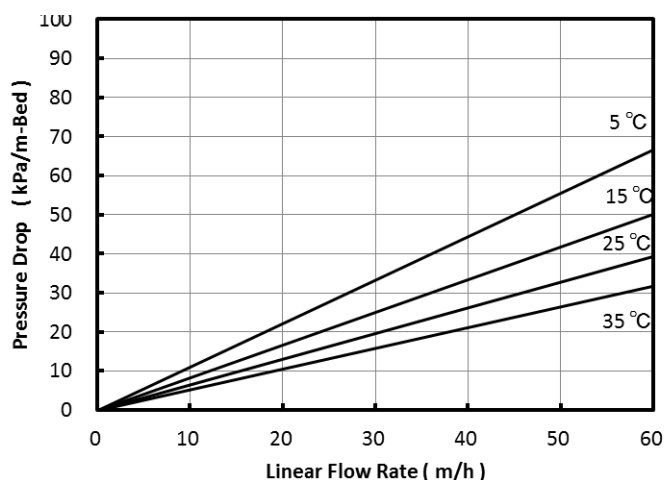


Fig. 1 Pressure Drop of RCP145H

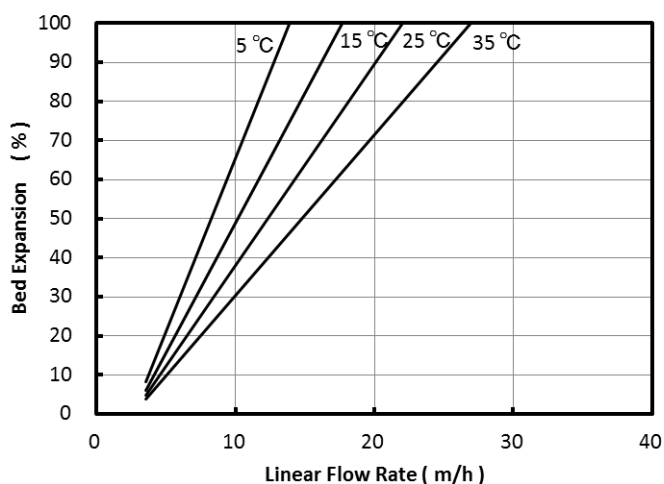


Fig. 2 Bed Expansion of RCP145H

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