

Product Data Sheet

DIAION™ RCP160M

DIAION™ RCP160M is a highly porous type strongly acidic cation exchange resin. It has higher cross-linkages and surface area. A wide range of applications, especially in a field of catalysts, is recommended.

Product

Grade Name	DIAION™ RCP160M	
Type	Strong Acid Cation	
Matrix	Styrene-DVB, Highly Porous	
Functional Group	Sulfonic Acid	
Ionic Form	H ⁺	

Specification

Whole Bead Count	-	95 min.
Salt Splitting Capacity	meq/mL	1.5 min.
Water Content	%	45 - 55
Particle Size Distribution on 710 μm	%	25 max.
Ionic Form Conversion H Form	eq%	97 min.
Residual Acid	pH	5 min.

Typical Properties

Shipping Density	g/L	740
Mean Particle Size	μm	530
Particle Density	g/mL	1.19
Total Swelling (Na ⁺ to H ⁺)	%	2

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		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™ RCP160M resin in normal down flow operation is shown in the graphs below.

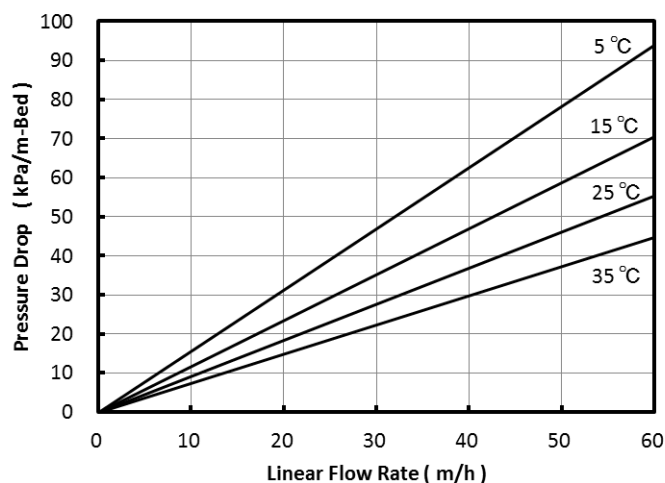


Fig. 1 Pressure Drop of RCP160M

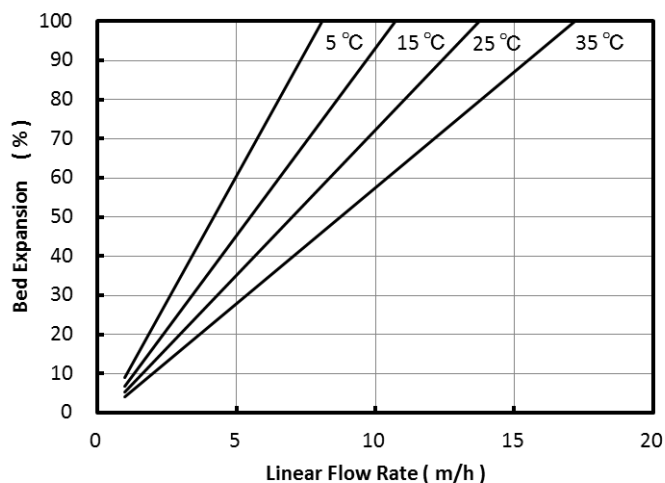


Fig. 2 Bed Expansion of RCP160M

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