## Product Data Sheet DIAION<sup>™</sup> RCP145H

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

Grade Name		DIAION <sup>™</sup> RCP145H
Туре		Strong Acid Cation
Matrix		Modified Styrene-DVB, Porous
Functional Group		Sulfonic Acid
Ionic Form		H <sup>+</sup>
Specification		
Whole Bead Count	-	95 min.
Salt Splitting Capacity	meq/mL	0.8 min.
Water Content	%	61 - 71
Particle Size Distribution on 1180 $\mu$ m	%	5 max.
Particle Size Distribution thr. 300 $\mu$ m	%	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 <sup>+</sup> to $H^+$ )	%	5
Recommended Operating Conditi	ons	
Maximum Operating Temperature	°C	150
Operating pH Range		0 - 14
Minimum Bed Depth	mm	800
Service Flow Rate	BV/h	10 - 60
Regenerant		HCI
		H <sub>2</sub> SO <sub>4</sub>
Regenerant Concentration	%	HCl 4 - 10
-		H <sub>2</sub> SO <sub>4</sub> 1 - 4
Regenerant Level	g/L	50 - 200
_	-	2 - 10
Regenerant Flow Rate	BV/h	Z - 10

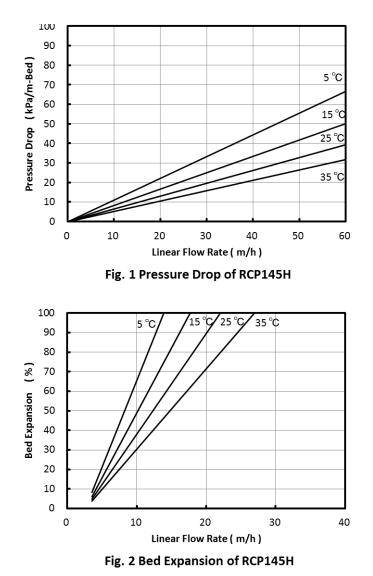
1 BV(Bed Volume)=1 m<sup>3</sup>/m<sup>3</sup>-resin

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### Hydraulic Characteristics

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



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