No.01-09-A-0205

Product Data Sheet DIAION[™] CR20

DIAION[™] CR20 is a polyamine type chelating resin. It has a high selectivity for divalent metal ions, especially transition metal elements, than monovalents. It is recommended for chemical process separations, and metals removal and recovery from waste water.

The Selectivity of DIAIONTM CR20 toward metal ions : $Hg^{2+} > Fe^{3+} > Cu^{2+} > Zn^{2+} > Cd^{2+} > Ni^{2+} > Co^{2+} > Ag^+ > Mn^{2+}$

Grade Name	DIAION [™] CR20	
Туре	Chelating Resin	
Matrix	Styrene-DVB, Highly Porous	
Chemical Structure	-CH ₂ -CH-	H(CH ₂ CH ₂ NH) _n H
Functional Group		Polyamine
Ionic Form		Free Base
Specification Whole Bead Count		95 min.
Cu Adsorption Capacity	mmol/mL	0.4 min.
Water Content	%	50 - 60
Particle Size Distribution on 1180 µm	%	5 max.
Particle Size Distribution thr. 300 μ m	%	1 max.
Effective Size	mm	0.40 min.
Uniformity Coefficient	-	1.6 max.
officiently coefficient		
Typical Properties		
· ·	g/L	640
Typical Properties	g/L μm	640 570
Typical Properties Shipping Density	-	



Recommended Operating Conditions

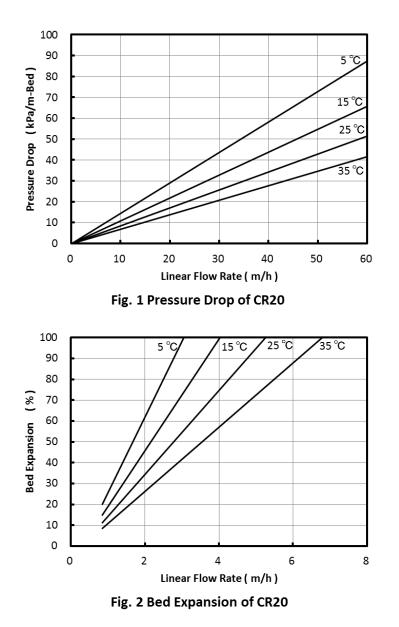
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Ν	Naximum Operating Temperature	°C	100
	Effective pH Range		4* - 10**
	Minimum Bed Depth	mm	800
	Service Flow Rate	m/h	10 - 30
	Regenerant		HCI
	Regenerant Concentration	%	HCl 4 - 10
	Regenerant Level	g/L	100 - 200
	Regenerant Flow Rate	m/h	2 - 10
	Total Rince Requirement	BV	10 - 20

*Some metal ions can be slightly adsorbed at a pH lower than 4. **In an alkaline solutions, ions may be precipitated as hydroxides.



Hydraulic Characteristics

The approximate pressure drop at various temperatures and flow rates for each meter of bed depth of $DIAION^{TM}$ CR20 resin in normal down flow operation is shown in the graphs below.



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