

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.

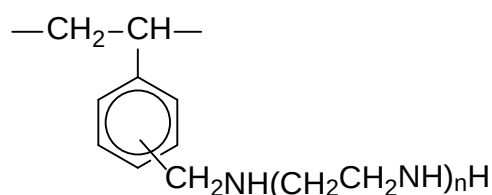
The Selectivity of DIAION™ CR20 toward metal ions :

$\text{Hg}^{2+} > \text{Fe}^{3+} > \text{Cu}^{2+} > \text{Zn}^{2+} > \text{Cd}^{2+} > \text{Ni}^{2+} > \text{Co}^{2+} > \text{Ag}^{+} > \text{Mn}^{2+}$

Product

Grade Name	DIAION™ CR20
Type	Chelating Resin
Matrix	Styrene-DVB, Highly Porous

Chemical Structure



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 μm	%	1 max.
Effective Size	mm	0.40 min.
Uniformity Coefficient	-	1.6 max.

Typical Properties

Shipping Density	g/L	640
Mean Particle Size	μm	570
Particle Density	g/mL	1.05
Total Swelling (FB to Cl⁻)	%	10


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DIAION™ CR20**Recommended Operating Conditions**

Maximum Operating Temperature	°C	100
Effective pH Range		2 - 6
Minimum Bed Depth	mm	800
Service Flow Rate	m/h	10 - 30
Regenerant		HCl
Regenerant Concentration	%	HCl 4 - 10
Regenerant Level	g/L	100 - 200
Regenerant Flow Rate	m/h	2 - 10
Total Rinse Requirement	BV	10 - 20

Notice

This information are given in good faith but without warranty, and this also applies where proprietary rights of third parties are involved. The application, use and processing of our products are beyond our control and therefore your own responsibility.

