

TRILITE® CLR-09

Chelating Resin for Metals Removal

Rev.1 July 2018

TRILITE® CLR-09 is weak acid, macroporous, chelating resin with amino methyl phosphonic acid groups and heterodispersed bead size distribution. TRILITE® CLR-09 is relative to pH, and could work in neutral, acidic and basic solutions. The relative binding affinity varies accordingly to pH and concentration of ions. Besides, the capacity is relative to content of Ca²⁺, Mg²⁺ in brine, temperature etc.

Selectivity under Acidic condition : Pb²⁺ > Cu²⁺ > U⁴⁺, Zn²⁺, Al³⁺ > Mg²⁺ > Sr²⁺, Ca²⁺, Na⁺, Ba²⁺

Selectivity under Alkaline condition : Cd²⁺, Mg²⁺ > Ca²⁺ > Sr²⁺, Al³⁺ > Ba²⁺ ≥ Na⁺, K⁺

Physical and Chemical Properties

Physical Form	White to yellow spheres	Matrix	Styrene-DVB, Macroporous
Functional Group	Aminomethylphosphonic acid	Ionic Form	Na ⁺
Total Capacity(eq/ℓ)	1.8 ↑	Moisture Retention(%)	50~60
Shipping Density(g/ℓ)	720-780	Particle Density	1.17 – 1.23
Uniformity Coefficient	1.6 ↓	Particle Size(mm)	0.45~1.00 (≥ 95%)
Whole Beads(%)	95 ↑		

Recommended Operating Conditions

Operating Temp(°C)	90(H ⁺), 120(Na ⁺)	pH Range	9 ~ 12 (recommended)
Bed Depth(mm)	700	Service Flow Rate(m/h)	10~40
Regeneration			
Regenerant	HCl	Concentration(N)	1~2
Level(g/ℓ)	100~250	Flow Rate(BV/hr)	4~8
Conditioning	NaOH	Concentration(N)	1~2
Level(g/ℓ)	40~60	Flow Rate(BV/hr)	2~4

Applications

TRILITE® CLR-09 is recommend for Purification of Brine in the chloralkali industry, Electroplating industry, Copper removal, recovery or removal of the Heavy metals.

Samyang's TRILITE Ion exchange resins are produced based on the ISO 9001, ISO 14001 certification.

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