

**TRILITE® CLR-B3**

Chelating Resin for Boron Removal

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TRILITE® CLR-B3 is a superior grade chelating resin with high selectivity to boron. The resin has high selective that it could remove boron from any salt background, it operates nearly like a universal resin for boron without interfered by other ions or boron concentration in solutions.

- 1) Boron removal for water used in irrigation
- 2) For boron removal from magnesium brine
- 3) Waste water containing boron

**Physical and Chemical Properties**

Matrix	Styrene-DVB, Macroporous	Functional Group	N-Methylglucamine
Ionic Form	Free Base	Total Capacity(eq/ℓ)	0.8 ↑
Capacity(eq/ℓ)	0.4eq/ℓ as boron ↑	Moisture Retention(%)	48~54
Shipping Density(g/ℓ)	660 ~750	Particle Density	1.05~1.15
Uniformity Coefficient	1.6 ↓	Particle Size(μm)	300~1,200
Whole Beads(%)	95 ↑	Swelling Rate(%) (FB → Cl <sup>-</sup> )	10

**Recommended Operating Conditions**

Operating Temp(°C)	60 ↓	Operating PH	4~10
Bed Depth(mm)	800	Service Flow Rate(BV/h)	5~20
Eluting			
Eluate	HCl, H <sub>2</sub> SO <sub>4</sub>	Concentration(%)	2.5~4
Level(g/ℓ)	55~100	Flow Rate(m/h)	50~70
Regeneration			
Regenerant	NaOH	Concentration(%)	2~4
Level(g/ℓ)	20~40	Flow Rate(BV/hr)	1~3
Rinse Requirement(BV)	10~15 (Softened Water)		

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

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