

C-211 XRR CATION RESIN**Description:**

C-211 XRR (Na) is an 8% cross-linked gel strong acid cation exchange resin consisting of a sulfonated polymer matrix of styrene and divinylbenzene supplied in the sodium form. This resin has a high exchange capacity and good chemical resistance over a wide pH range. This resin is specially processed in compliance with FDA 21 CFR 173.25 for food grade applications.

Chemical Properties

Functional Group	Sulfonic Acid
Ionic Form (as shipped)	Sodium
Moisture Content	44% - 48% (Na form)
Exchange Capacity	2.0 meq/ml minimum (Na form)

Physical Properties

Particle Screen Sizing	
+ 16 Mesh	5% maximum
- 50 Mesh	1% maximum
Whole Beads (%)	90 minimum
Effective Size	0.45 - 0.60 mm (approximate)
Swelling	6% - sodium to hydrogen form
Shipping Weight	52 lbs/ft ³

Operating Conditions

Operating pH Range	1 to 14
Service Flow Rate	
Demineralization	1 to 4 gpm/ft ³
Regenerant Flow Rate	0.5 to 1.0 gpm/ft ³
Rinse Flow Rate	0.5 to 1.0 gpm/ft ³
Rinse Volume	25 to 50 gallons/ft ³
Maximum Operating Temperature	250°F