

WESRLLX1025

WESRLLX1025 Food Grade high cross linkage gel type strong acid cation exchange resin

Used for softening potable water and water for foods and beverages.

Waterequips WESRLLX1025 Is a premium food grade gel type strong acid cation exchange resin produced by sulfonation of styrene-divinylbenzene (DVB) copolymers with high cross linkage at 10%. Its high cross linkage makes it has excellent resistance to attrition and oxidative degradation. WESRLLX1025 is in compliance with US FDA 21 CFR 173.25 and NSF/ANSI 61 qualified with WQA Gold Seal Certificate. It has excellent chemical, physical and thermal stability, and high exchange capacity. Its good ion exchange kinetics gives high efficiency for uses in both regenerable softeners and non-regenerable cartridges.

Basic Features:

Application:	Water softening for potable water, foods and beverages
Polymer matrix structure:	Gel polystyrene crosslinked with divinylbenzene (DVB)
Appearance:	Amber, spherical beads
Functional Group:	Sulphonic acid
Ionic form as shipped:	Na ⁺

Physical and Chemical Properties:

NO.	ITEM		SPEC
1	Total exchange capacity (eq/L)		≥2.2
2	Moisture retention (%)		40-45
3	Particle size range (%)		0.315-1.25 mm≥95
4	Whole uncracked beads after attrition (%)		≥96
5	Shipping weight (g/ml)		0.80-0.88
6	Specific gravity (g/ml)		1.28-1.32
7	Effective size (mm)		0.4 - 0.6
8	Uniformity coefficient		<1.7
9	Reversible swelling, Ca ²⁺ → Na ⁺ (%)		<8
Extractive test (special for food grade resins)			
10	PH		6.5-8.5
11	Color throw (APHA)	1 hour	< 10
		24 hours	< 30
12	Odor		0-1
13	Extractable residue (%)		< 0.1
14	TOC (mg/l)		0 - 30
15	TN (mg/l)		0 - 15

Suggested Operating Conditions:

NO.	ITEM		SPEC
1	Max operating temperature		120 °C
2	PH range		0-14
3	Service flow rate		5-50 BV/h
4	Regenerant		10-15% NaCl