

WESRLIG25 (C107E)

Waterequip® TC007

Industrial Grade gel type strong acid cation exchange resin

Used for water softening and demineralization

Waterequip® TC007 Is a premium grade gel type strong acid cation exchange resin produced by sulfonation of styrene-divinylbenzene (DVB) copolymers in standard Gaussian size distribution. It has excellent chemical, physical and thermal stability. TC007 in sodium form is widely used for water softening to reduce total hardness. In hydrogen form, it also can be used for water demineralization.

Basic Features:

Application:	Water softening, demineralization
Polymer matrix structure:	Gel polystyrene crosslinked with divinylbenzene (DVB)
Appearance:	Amber, spherical beads
Functional Group:	Sulphonic acid
Ionic form as shipped:	Na ⁺ or H ⁺

Physical and Chemical Properties:

NO.	ITEM		SPEC
1	Total exchange capacity (eq/L)	Na ⁺ form	≥1.8
		H ⁺ form	≥1.8
2	Moisture retention (%)	Na ⁺ form	45-50
		H ⁺ form	51-56
3	Particle size range (%)		0.315-1.25 mm ≥95
4	Whole uncracked beads after attrition (%)		≥96
5	Shipping weight (g/ml)	Na ⁺ form	0.77-0.87
		H ⁺ form	0.73-0.83
6	Specific gravity (g/ml)	Na ⁺ form	1.25-1.29
		H ⁺ form	1.17-1.22
7	Effective size (mm)		0.4 - 0.6
8	Uniformity coefficient		<1.7
9	Reversible swelling, Ca ²⁺ or Na ⁺ → H ⁺ (%)		<8

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, 4-10% HCl, 1-8% H ₂ SO ₄