



CATION EXCHANGE RESIN TOKEM-250

TR 2227-019-72285630-2009

High capacity weak acid cation exchange resin (porous type). Its features are improved particle range composition, osmotic stability and high total and dynamic exchange capacities. The resin contains minimum mineral and organic impurities.

GENERAL DESCRIPTION	
Matrix	acryl-DVB
Functional group	carboxyl
Polymer structure	macroporous
Ionic form	H ⁺ Hydrogen Na ⁺ Sodium

Application area:

- purification of residential and potable water.

Physical and Chemical Characteristics :

CHARACTERISTICS	STANDARD VALUE	
Appearance	Spherical opaque beads, white to light yellow in colour	
Ionic form	H ⁺	Na ⁺
Particle size range, mm	0.315-1.600	
Uniformity coefficient, max	1.6	
Volume of effective size fraction, % min	98	
Effective particle size, mm	0.4-0.6	
Moisture retention, %	45-55	55-65
Osmotic stability, %, min	98	
Total capacity, mmol/cm ³ (mg-eq/cm ³), min	4.3	
Dynamic exchange capacity with regenerant requirement target, mmol/m ³ (g-eq/m ³), min	2300	
Mass fraction of ammonium ions in water product, mg/dm ³ , max	0.4	



Table con'd (Physical and Chemical Characteristics)

Permanganate demand of aqueous extract in oxygen equivalent, mg/dm ³ , max: at 20 °C at 80 °C	4 6	
Odour intensity of water filter at 100 °C, units, max	1	
Shipping weight, g/cm ³	0.74-0,80	0.78-0.88
Particle density, g/cm ³	1.14-1.20	1.20-1.25

Processing Characteristics:

SUGGESTED OPERATING CONDITIONS AND MODES:

Bed depth, mm min	600
Temperature limit, ° C	120
pH limit	5-14
Swelling at H ⁺ → Na ⁺ , % Na ⁺ → Ca ⁺ , %	40-60 7
Regenerant, % H ⁺ form	(0.3-0.8) H ₂ SO ₄ (4-5) HCl
Total rinse requirement, BV	6-10
Backwashing bed expansion, %	80-100