

## ANION EXCHANGE RESIN TOKEM-822

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Strong base anion exchange resin (porous type) with high capacities and osmotic stability. It ensures more efficient removal of organic molecules in comparison with gel products.

GENERAL DESCRIPTION	
Matrix	Styrene-DVB
Functional group	quaternary ammonium basic groups (type 2)
Polymer structure	porous
Ionic form	Cl <sup>-</sup> chloride

### Application area:

- in desalination plants where sorption of all acid anions are carried out at one stage anionization;
- in conventional co-current water treatment systems for treating water with high content of mineral acid radicals and organic substances but with low content of silicic and carbon acids as a protection from organic compounds.

### Physical and Chemical Characteristics:

CHARACTERISTICS	STANDARD VALUE
Appearance	Spherical opaque beads, white to light yellow
Particle size range, mm	0.315-1.250
Volume of effective size fraction, % min	95
Effective particle size, mm	0.5-0.6
Uniformity coefficient, max	1.6
Moisture retention in Cl <sup>-</sup> form, %	47-57
Osmotic stability, %, min	96
Total capacity in OH <sup>-</sup> form, mmol/cm <sup>3</sup> (mg-eq/cm <sup>3</sup> ), min	1.0
Shipping weight in Cl <sup>-</sup> form, g/cm <sup>3</sup>	0.68-0.74
Particle density in Cl <sup>-</sup> form, g/cm <sup>3</sup>	1.07-1.10



**Processing Characteristics:**

<b>SUGGESTED OPERATING CONDITIONS AND MODES:</b>	
Bed depth min, mm	800
Temperature limit, °C	
Cl <sup>-</sup> form	80
OH <sup>-</sup> form	30
p H limit	0-11
Swelling at Cl <sup>-</sup> → OH <sup>-</sup> , %	12
Regenerant, %:	(4-5) NaOH
Total rinse requirement, BV	4-7
Backwashing bed expansion, %	80-100