

ANION EXCHANGE RESIN TOKEM-802

TR 2227-037-72285630-2014

Strong base anion exchange resin (gel type) with high total and dynamic capacity, osmotic and mechanical stability. It differs from type 1 for more efficient regeneration due to its more available functional groups.

GENERAL DESCRIPTION	
Matrix	Styrene-DVB
Functional group	quaternary ammonium basic groups (type 2)
Polymer structure	gel
Ionic form	Cl ⁻ chloride

Application area:

- in desalination units where sorption of all acid anions are carried out at the single anionization stage;
- in conventional co-current water treatment systems for treating water with high content of mineral acid radicals but with low content of silicic and carbon acids.

Physical and Chemical Characteristics:

CHARACTERISTICS	STANDARD VALUE
Appearance	Spherical beads, white to light yellow in colour
Particle size range, mm	0.315-1.250
Volume of effective size fraction, % min	95
Effective particle size, mm max	0.5-0.6
Uniformity coefficient, max	1.6
Moisture retention, %	45-55
Osmotic stability, %, min	96
Total capacity, mmol/cm ³ (mg-eq/cm ³), min	1.0
Shipping weight, g/cm ³	0.68-0.75
Particle density, g/cm ³	1.07-1.10



Processing Characteristics:

SUGGESTED OPERATING CONDITIONS AND MODES:	
Bed depth min, mm	800
Pressure drop coefficient, kPa · h/m ²	1.35
Temperature limit, °C	
Cl ⁻ form	80
OH ⁻ form	40
pH limit	0-11
Swelling at Cl ⁻ → O H ⁻ , %	15
Regenerant, %	4 NaOH
Total rinse requirement, BV	2-8
Backwashing bed expansion, %	80-100