



ANION EXCHANGE RESIN TOKEM-820

TR 2227-037-72285630-2014

Strong base macroporous anion exchange resin with high exchange capacity and osmotic stability.

GENERAL DESCRIPTION	
Matrix	styrene-DVB
Functional group	quaternary ammonium basic groups (type 1)
Polymer structure	porous
Ionic form	Cl ⁻ chloride OH ⁻ hydroxylic

Application area:

In Cl⁻ form the resin is applied as a scavenger for organics to protect the downstream anion exchange filter from organic poisoning;

In OH⁻ form:

- in conventional co-current water treatment systems for efficient removal of silicic ions;
- for condensate polishing.

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 ⁻ form, %	50-60
Osmotic stability, %, min	96
Total capacity in OH ⁻ form, mmol/cm ³ (mg-eq/cm ³), min	1.0
Shipping weight in Cl ⁻ form, g/cm ³	0.65-0.73
Particle density in Cl ⁻ form, g/cm ³	1.05-1.10



Processing Characteristics:

SUGGESTED OPERATING CONDITIONS AND MODES:

Bed depth min, mm	800
Temperature limit, ° C	
Cl ⁻ form	80
OH ⁻ form	60
pH limit	0-12
Swelling at Cl ⁻ → OH ⁻ , %	20
Regenerant, %:	
Cl ⁻ form	10 NaCl + (1-2) NaOH
OH ⁻ form	(3-4) NaOH
Total rinse requirement, BV	4-7
Backwashing bed expansion, %	80-100