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	Polyacrylic	
Functional group	quaternary ammonium basicgroups (type 1)	
Polymer structure	porous	
Ionic form	Cl ⁻ chloride OH ⁻ hydroxylic	

Application area:

In CI- 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	
Partcile 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 CI ⁻ form, %	50-60	
Osmotic stability, %, min	96	
Total capacity in OH- form, mmol/cm³ (mg-eq/cm³), min	1.0	
Shipping weight in CI ⁻ form, g/cm ³	0.65-0.73	
Particle density in CI ⁻ form, g/cm ³	1.05-1.10	

Processing Characteristics:

SUGGESTED OPERATING CONDITIONS AND MODES:		
Bed depth min, mm	800	
Temperature limit, ℃		
CI ⁻ form	80	
OH ⁻ form	60	
p H limit	0-12	
Swelling at Cl ⁻ → OH ⁻ , %	20	
Regenerant, %:		
CI ⁻ form	10 NaCl + (1-2) NaOH	
OH ⁻ form	(3-4) NaOH	
Total rinse requirement, BV	4-7	
Backwashing bed expansion, %	80-100	