

ANION EXCHANGE RESIN TOKEM-805 NR

TR -2227-042-72285630-2015

Strong base nuclear grade anion exchange resin (gel type).

GENERAL DESCRIPTION	
Matrix	Styrene-DVB
Functional group	quaternary ammonium basic groups (type 1)
Polymer structure	gel
Ionic form	OH- hydroxyl

Application area (according to Standard Protocol RD EO 1.1.2.25.0161-2009 and Industrial Standard STO 1.1.1.02.013.0715-2009):

- for using in anion exchange filters of special water treatment SVO-1 in SCWR reactors;
- for using in anion exchange filters of special water treatment SVO-2,4,6 (boron concentrate treatment) in SCWR reactors;
- for using in nonregenerable anion exchange filters of special water treatment SVO in LWGR reactors;
- for using in nonregenerable mix bed filters of special water treatment SVO-1 in SCWR reactors together with cation exchange resin TOKEM-105-10 NR;
- for using in nonregenerable mix bed filters of special water treatment SVO in LGWR reactors together with cation exchange resin TOKEM-105-10 NR.

Physical and Chemical Characteristics:

CHARACTERISTICS	STANDARD VALUE
Appearance	Spherical beads, light yellow to brown in colour
Particle size range, mm	0.4-1.25
Volume of effective size fraction, % min	98
Total uncracked beads as shipped, %, min	97
Osmotic stability, %, min	90
Moisture retention, %	55-60
Total capacity, mmol/cm ³ (mg-eq/cm ³), min	1.10
Oxidation in oxygen equivalent, mg/l, max	0.5
Mass fraction of chloride ions, mg/cm ³ , max	0.15



Table con' d (Physical and Chemical Characteristics)

Mean mechanical toughness, g/bead, min	400
Particles with toughness below 200 g/bead, %, max	5
Difference between settling times of anion and cation resins, sec, max	6
Electrostatic coefficient, % max	15