



ANION EXCHANGE RESIN TOKEM-845 NR

TR 2227-042-72285630-2015

Strong base nuclear grade anion exchange resin (gel type) with uniform particle size range.

GENERAL DESCRIPTION

Matrix	styrene-DVB
Functional group	quaternary ammonium basic groups (type 1)
Polymer structure Ionic	gel
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 anion exchange nonregenerable filters of special water treatment SVO in LWGR reactors.

Physical and Chemical Characteristics (according to Industrial Standard STO 1.1.1.07.003.0368-2011):

CHARACTERISTICS	STANDARD VALUE
Appearance	Spherical beads, white to light yellow in colour
Mean particle size, mm	0.60±0.05
Uniformity coefficient, max	1.1
Volume ratio of beads passing through N04 mesh, % max	1.0
Total uncracked beads as shipped, %, min	97
Osmotic stability, %, min	90
Total capacity, mmol/cm ³ (mg-eq/cm ³), min	1.1
Moisture retention, %	50-55
Product oxidation in oxygen equivalent, mg/dm ³ , max	0.5
Mass fraction of chloride ions, mg/cm ³ , max	0.15
Mean mechanical toughness, g/bead, min	400
Particles with toughness below 200 g/bead, %, max	5