



## ANION EXCHANGE RESIN TOKEM-805

TR 2227-042-72285630-2015

Strong base anion exchange resin (gel type) in ready for operation form.

### GENERAL DESCRIPTION

Matrix	styrene-DVB
Functional group	quaternary ammonium basic groups (type 1)
Polymer structure	gel
Ionic form	OH <sup>-</sup> 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-3,6 (advanced water product treatment), 7 in SCWR reactors;
- for using in anion exchange filters of special water treatment SVO-5 in SCWR reactors;
- for using in anion exchange regeneration 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, light yellow to brown in colour
Particle size range, mm	0.4-1.25
Volume of effective size fraction, % min	97
Degree of conversion to OH <sup>-</sup> form, % min	95
Total uncracked beads as shipped, % min	97
Osmotic stability, %, min	90
Total capacity, mmol/cm <sup>3</sup> (mg-eq/cm <sup>3</sup> ), min	1.10
Moisture retention, %	55-60
Oxidation in oxygen equivalent, mg/l, max	0.5
Dynamic exchange capacity, mmol/m <sup>3</sup> , min	600
Mean mechanical toughness, g/bead, min	450
Beads with toughness below 200 g/bead, %, max	5