



CATION EXCHANGE RESIN TOKEM-105-10

TR 2227-042-72285630-2015

Strong acid cation exchange resin (gel type) with high conversion to H⁺ form.

GENERAL DESCRIPTION	
Matrix	styrene-DVB
Functional group	Sulfonic Acid
Polymer structure	gel
Ionic form	H ⁺ Hydrogen

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 cation exchange filters of special water treatment SVO-3,6 (advanced water product treatment), 7 in SCWR reactors;
- for using in cation exchange filters of special water treatment SVO-5 in SCWR reactors in ammonia-hydrazine regime;
- for using in cation 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. Yellow to dark brown in colour
Particle size range, mm	0.40-1.25
Volume of effective size fraction, % min	97
Conversion to H ⁺ form, %, min	99
Total uncracked beads as shipped, %, min	97
Moisture retention, %	45-51
Osmotic stability, %, min	94
Total capacity, mmol/cm ³ (mg-eq/cm ³), min	2.0
Mean mechanical toughness, g/bead, min	450
Beads with toughness below 200 g/bead, %, max	5