

CATION EXCHANGE RESIN TOKEM-145-10 NR

TR 2227-042-72285630-2015

Strong acid nuclear grade cation exchange resin (gel type) with uniform particle range composition.

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-1 in SCWR reactors;

- for using in cation exchange filters of special water treatment SVO-2,4,6 (boron concentrate treatment) in SCWR reactors;

- for using in cation exchange nonregenerable filters of special water treatment SVO in LWGR reactors.

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

CHARACTERISTICS	STANDARD VALUE
Appearance	Spherical beads, yellow to dark brown in colour
Mean particle size, mm Uniformity	0.65±0.05
coefficient, max	1.1
Volume ratio of beads passing through N04 mesh, % max	1.0
Osmotic stability, %, min	94
Total uncracked beads as shipped, %, min	97
Moisture retention, %	45-51
Total capacity, mmol/cm ³ (mg-eq/cm ³), min	2.0
Product oxidation in oxygen equivalent, mg/g, max	0.5
Mass fraction of chloride ions, mg/cm ³ , max	0.01
Mean mechanical strength, g/bead, min	400
Beads with toughness below 200 g/bead, %, max	5