



# TOKEM MB-65

TR 20.16.59-039-72283630-2016

TOKEM MB-65 is a ready equimolar mixture to be used in nonregenerable mix bed filters. It consists of high purity monodisperse strong base anion exchange resin and monodisperse strong acid cation exchange resin (1 : 1 in capacity).

## GENERAL DESCRIPTION

Matrix	styrene-DVB
Functional group	Sulfonic acid/quaternary amine (type1)
Polymer structure	gel
Ionic form	H <sup>+</sup> / OH <sup>-</sup> Hydrogen / hydroxyl

### Application area:

- for mix bed filters and cartridges to produce ultrapure water with electric conductivity of up to 0.056  $\mu$  S/sm; it is applied in manufacturing electronics, in medicine and other fields of industry and science;
- for purification of potable water.

### Physical and Chemical Characteristics:

CHARACTERISTICS	STANDARD VALUE	
Appearance	Spherical grains, yellow to dark brown in colour	
Components	Cation exchange resin	Anion exchange resin
Component content in the mixture, volume %	35 $\pm$ 5	65 $\pm$ 5
Total capacity, mmol/cm <sup>3</sup> (mg-eq/cm <sup>3</sup> ), min	1.8	1.1
Moisture retention, %	48-58	55-60
Water product oxidation in oxygen equivalent, max	0.5 mg/g	0.5 mg/l
Mass fraction of chloride ions, mg/cm <sup>3</sup> , max	0.15	

## PARTICLE SIZE DISTRIBUTION

Mean particle size, mm	0.55 $\pm$ 0.05	0.65 $\pm$ 0.05
Volume of effective size fraction, % min	98	



Table con'd (Physical and Chemical Characteristics)

Total uncracked beads as shipped, %, min	97
Uniformity coefficient, max	1.1
<b>MECHANICAL STRENGTH (M)</b>	
Average, g/bead, min	400
Number of beads with M<200 g/bead, %, max	5
Difference between settling times of anion and cation resins, sec, max	6
Electrostatic coefficient, % max	15