



TOKEM MB-65

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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 ⁺ / OH ⁻ Hydrogen / hydroxyl

Application area:

- for mix bed filters and cartridges to produce ultrapure water with electric conductivity of up to 0.056 μ 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		Anion exchange resin
Component content in the mixture, volume %	35 ± 5	65 ± 5
Total capacity, mmol/cm ³ (mg–eq/cm ³), 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 ³ , max	0.15	
PARTICLE SIZE DISTRIBUTION		
Mean particle size, mm	0.55 ± 0.05	0.65 ± 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
MECHANICAL STRENGTH (M)	
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