



## TOKEM MB-45 (P)

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TOKEM MB-45 (P) is a ready mixture to be used in nonregenerable mix bed filters. It consists of high purity strong base anion exchange resin and strong acid cation exchange resin.

### 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, light yellow to brown in colour	
Components	Cation exchange resin	Anion exchange resin
Component content in the mixture, volume %	60 $\pm$ 5	40 $\pm$ 5
Total capacity, mmol/cm <sup>3</sup> (mg-eq/cm <sup>3</sup> ), min	1.9	1.15
Mass fraction of chloride ions, mg/cm <sup>3</sup> , max	0.01	0.40
Water product oxidation in oxygen equivalent, max	0.5 mg/g	0.5 mg/dm <sup>3</sup>
Moisture retention, %	50-60	
Difference between settling times of anion and cation resins, sec, max	6	
Electrostatic coefficient, % max	20	
PARTICLE SIZE DISTRIBUTION		
Mean particle size, mm	0.40-1.25	
Volume of effective size fraction, % min	98	
Total uncracked beads as shipped, %, min	97	