

## ANION EXCHANGE RESIN TOKEM-320

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Weak base anion exchange resin (porous type) with high exchange capacity and osmotic stability, resistant to organic fouling. In combination with strong base anion exchange resin it ensures minimum silicic acid slip. It removes organic molecules more efficiently than gel products.

GENERAL DESCRIPTION	
Matrix	Styrene-DVB
Functional group	tertiary amine
Polymer structure	porous
Ionic form	free base

### Application area:

- water demineralization for industrial vapour generation;
- organic matter removal.

### Physical and Chemical Characteristics:

CHARACTERISTICS	STANDARD VALUE
Appearance	Spherical opaque beads, opaline to yellow in colour
Particle size range, mm	0.315-1.250
Volume of effective size fraction, % min	98
Effective particle size, mm	0.4-0.6
Uniformity coefficient, max	1.6
Moisture retention, %	50-60
Osmotic stability, %, min	99
Total capacity, mmol/cm <sup>3</sup> (mg-eq/cm <sup>3</sup> ), min	1.5
Dynamic exchange capacity with regenerant requirement target, mmol/m <sup>3</sup> (g-eq/m <sup>3</sup> ), min	1000
Shipping weight, g/cm <sup>3</sup>	0.65-0.72
Particle density, g/cm <sup>3</sup>	1.03-1.07



**Processing Characteristics:**

<b>SUGGESTED OPERATING CONDITIONS AND MODES:</b>	
Bed depth min, mm	800
Temperature limit, °C	60
pH limit	0-8
Swelling at $Cl^- \rightarrow$ free base, %	20-25
Regenerant, %	(2-4) NaOH
Total rinse requirement, BV	4-9
Backwashing bed expansion, %	80-100