ANION EXCHANGE RESIN AB-17-8 chS

GOST 20301-74

Strong base anion exchange resin (gel type) with high chemical stability and mechanical strength. The resin is manufactured in OH^- form. Conversion to OH^- form is not less than 94%. It contains minimum amounts of residual chloride and iron ions and organic compounds. Its high purity enables using the anion exchange resin for deep water demineralization.

GENERAL DESCRIPTION	
Matrix	styrene-DVB
Functional group	quaternary trimethylammonium groups
Polymer structure	gel
Ionic form	OH^- hydroxyl

Application area:

- deep water treatment;
- chemical, pharmaceutical and food industries.

Physical and Chemical Characteristics:

CHARACTERISTICS	STANDARD VALUE
Appearance	Spherical beads, light yellow to dark brown in colour
PARTICLE SIZE DISTRIBUTION	
Particle size range, mm	0.40-1.25
Effective particle size, mm max	0.6
Volume of effective size fraction, % min	95
Uniformity coefficient, max	1.6
Specific volume in OH^- form, cm^3/g	3.0 ± 0.3
Total capacity, $mmol/cm^3$ ($mg\text{-}eq/cm^3$), min	1.20
Equilibrium static exchange capacity, $mmol/cm^3$ ($mg\text{-}eq/cm^3$), min	1.10
Dynamic exchange capacity with full regeneration, $mmol/m^3$ ($g\text{-}eq/m^3$), min	1050
Water product oxidation in oxygen equivalent, mg/l max	0.60

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Table con'd (Physical and Chemical Characteristics)

Osmotic stability, %, min	91
Mass fraction of chloride ions, mg/cm^3, max	0.400
Alkali mass fraction, mmol/g (mg-eq), max	0.0005
Iron mass fraction, % max	0.03
Anion exchange resin content in CO_3^{2-} form, % max	6.0

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