

TECHNICAL DATASHEET

DESCRIPTIONS

- Type 1 strong base gel anion ion exchange resins, crosslinking 4%. The structure was specially developed to make a balance between total capacity and regeneration efficiency with excellent resistance to osmotic shock and good physical and chemical stability used for industrial water treatment, radioactive element extraction, condensate deionization. It can be used in single bed or mixed bed designs.

KEY FEATURES

- High operating capacity
- Good kinetic performance
- Long lifetime

APPLICATIONS

- Industrial demineralization
- Radioactive element extraction
- Condensate deionization
- Removal of contaminants such as nitrate, arsenate, chromate, uranium etc.

PHYSICAL AND CHEMICAL CHARACTERISTICS

Matrix Structure	Polystyrene Crosslinked with DVB	
Functional group	Quaternary amine (Trimethylamine)	
Physical appearance	Yellowish translucent spheres	
Particle size (mm)	0.6 – 0.75	
<0.3 mm (%)	≤ 1.0	
>1.19mm (%)	≤ 2.0	
Shipping form	OH-	Cl-
Mean diameter (mm)	0.55-0.75	0.6 – 0.75
Moisture content (%)	55-70	45-60
Total capacity (eq/L)	≥ 1.0 (OH- form)	>1.3 (Cl- form)
Bulk density (g/l)	630-730	
Density (g/l)	1070-1100	
Whole beads count (%)	>95	
Uniformity coefficient	<1.60	

Recommended Operating Conditions

Maximum Operating Temperature (°C)	OH- form 60°C Cl- form 120°C	
Service flow rate (BV/h)	5-50	
Regeneration	NaOH	NaCl+NaOH
Concentration (%)	2-5	10%+2%
Flow rate (BV/h)	1-3	1-2
Minimum Contact Time	30 Minutes	
Fast Rinse (BV/h)	3-5 BV	
PH Range	0-14	
1 BV (Bed Volume) = 1 m3 solution per m3 resin		

PRECAUTIONS

- Resins should be stored in sealed containers or bags where temperature was above 0°C in dry conditions without exposure to direct sunlight.
- Do not mix ion exchange resin with strong oxidizing agents; otherwise it will cause violent reactions.
- In case of eyes contact with resins, rinse eyes immediately with plenty of water, and consult a specialist.
- Material and samples must be disposed according to local regulations.
- Dry polymers will expand when become wetted and may cause an exothermic reaction.
- Spilled materials may be slippery.
- This information is general information and may differ from that based on actual conditions. For more information about the product, please contact EuroTec directly.



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