

**TECHNICAL DATASHEET**

**DESCRIPTIONS**

- High purity strong acid cation resin, gel type, with 8% crosslinking. It is mainly designed for the water demineralization in industrial application and for softening of potable water.
- It has excellent mechanical strength and good ion exchange kinetics making it a good general-purpose resin in different applications. Comparing with other resin in market, this resin distinguishes itself for its long service life.
- The resins are produced fully in accordance with the FDA (US Food & Drug Administration), also meeting the regulations prescribed under Resolution ResAP (2004) 3 on ion exchange and absorbent resins used in the processing of foodstuffs.

**KEY FEATURES**

- High operating capacity
- Good kinetic performance
- Long lifetime
- Easy to regeneration

**PHYSICAL AND CHEMICAL CHARACTERISTICS**

Matrix Structure	Polystyrene Crosslinked with DVB	
Functional group	Sulfonic acid	
Physical appearance	Dark brown to black Spherical beads	
Particle size (mm)	0.62 – 0.83	
Shipping form	Na+	H+
Moisture content (%)	43-48	50-60
Total capacity (eq/L)	>2.0	>1.8
Bulk density ( g/l)	780-870	750-850
Density ( g/l)	1240-1280	1150-1240
Whole beads count (%)	> 95	> 95
Uniformity coefficient	<1.6	<1.6

## Recommended Operating Conditions

Operating Temperature	max. °C	140
Operating PH		0-14
Min. Bed depth	mm	800
Pressure drop	max. kPa	280
Exhaustion linear velocity	max. m/h	10-50
Backwash bed expansion	Approx. vol. %	4 (at 20°C, per m/h)
Backwash freeboard	vol. %	60-75
Regenerant		NaCl / HCl
Regeneration level	Approx. g/l	60-300 / 40-300
Regeneration concentration	wt. %	6-13 / 1-6
Regeneration linear velocity	Approx. m/h	1-10
Rinse linear velocity	Approx. m/h	1-10
Rinse water requirement (slow/fast)	Approx. BV	1-2/2-5
Regeneration flow rate	BV/h	4-12
Rinse flow rate	Approx. BV/h	3-8

## 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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