



PMB101-2

Mixed Bed Resin

PURE RESIN

Product Description & Applications

Pure PMB101-2 is a high capacity mixed bed ion exchange resin consisting of a mixture of a gel, Type I strong base anion resin and a gel strong acid cation resin for direct purification of water. The conductivity is 0.1us/cm max. It is suitable for use in regenerable or non-regenerable cartridges, for deionization with high silica removal efficiency and refine water for electrical home applications.

Typical Physical & Chemical Characteristics

Polymer Structure	Gel polystyrene crosslinked with DVB
Functional Group: Cation	RSO ₃ H ⁺
Anion	R ₄ N ⁺ OH ⁻
Ionic Form, as shipped	H ⁺ / OH ⁻
Physical Form And Appearance	Spherical Beads
Sphericity	95% min.
Screen Size Range --- U.S. Standard Screen	16-50 mesh, wet
Particle Size Range	+1.2 mm < 5%, -0.3 mm < 1%
Volume Ratio (as shipped)	
Cation	40% PC003H
Anion	60% PA101OH
Total Exchange Capacity,	
Cation (in sodium form)	2.0 eq/l min.
Cation (in H form)	1.9 eq/l min.
Anion (in chloride form)	1.3 eq/l min.
Anion (in OH form)	1.0 eq/l min.
Water Retention, H form	45-50%
OH form	53-60%
Shipping Weight (Approx.)	700-740 g/l (44-46 lbs/cu.ft)
Temperature Limit :	
Non-regenerative bed	100°C (212°F) max.
Regenerative bed	60°C (140°F) max.
pH Range	0-14

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Suggested Operating Conditions

Maximum operating temperature	120°C (248°F) max.
Minimum Bed Depth	0.7 m (2.3 ft)
Service flow rate	20-60 BV/h (2.5-5 gpm/ft3)

The operating capacity of the mixed bed can be estimated using the following formula, which gives an approximate determination of volume of water that can be treated:

$$BV^* = \frac{20000}{\text{conductivity } (\mu\text{s/cm})}$$

Note: Where BV* (Bed Volume) is the number of liters of a feed water containing a conductivity given in $\mu\text{s/cm}$ that can be demineralized with one liter of the resin mixture when run to treated water conductivity $0.1\mu\text{s/cm}$.

This data is tested under below condition:

- A. feed water containing a conductivity as $100\mu\text{s/cm}$
- B. service flow rate as 60BV/h