PMB101-2

Mixed Bed Resin
10 Megohm·cm

High Quality & Cost-Effective

Product Description

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.

Applications

Pure PMB101-2 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 Matrix Structure	Gel Polystyrene crosslinked with DVB
Functional Group: Cation Anion	$RSO_3^-H^+$ $R_4N^+OH^-$
Ionic Form, as shipped	H^+ / OH^-
Physical Form And Appearance	Clear 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 Anion	 40% PC003H 60% PA101OH
Total Exchange Capacity, Cation (in sodium form) Cation (in H form) Anion (in chloride form) Anion (in OH form)	 2.0 eq/l min. 1.9 eq/l min. 1.3 eq/l min. 1.0 eq/l min.
Water Retention, H form OH form	50-55% 60-65%
Shipping Weight (Approx.)	700-740 g/l (44-46 lbs/cu.ft)
pH Range	0-14

PURE RESIN COMPANY LIMITED
No.10 Weisan Road, HSEDA, Shangyu, Shaoxing, Zhejiang 312369, China
P. +86-571-8721-1518 F. +86-571-8721-1508 info@pureresin.com
WWW.PURERESIN.COM

PMB101-2

Mixed Bed Resin
10 Megohm·cm

High Quality & Cost-Effective

Suggested Operating Conditions

Temperature Limit :	
Non-regenerative bed	100°C (212°F) max.
Regenerative bed	60°C (140°F) max.
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/ft^3)

Suggested Operating Capacity

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 μs/cm that can be demineralized with one liter of the resin mixture when run to treated water conductivity 0.1 μs/cm.
This data is tested under below condition:
A. feed water containing a conductivity as 100 μs/cm
B. service flow rate as 60BV/h

PURE RESIN COMPANY LIMITED
No.10 Weisan Road, HSEDA, Shangyu, Shaoxing, Zhejiang 312369, China
Q. +86-571-8721-1518 F. +86-571-8721-1508 info@pureresin.com
WWW.PURERESIN.COM