

Gel Type Strong Acid Cation Exchange Resin

Purolite C100x10MB is a gel polystyrenic strong acid cation exchange resin that can be used either in water softening (where high chlorine levels are prevalent), in mixed bed demineralization (for better separation due to the higher density than the standard resin, C100), in dealkalization, or in condensate polishing (where a more rugged physical structure is needed). C-100x10MB is crosslinked with styrene and divinylbenzene polymers and classified as a 10% crosslinked resin. Purolite C100x10MB has outstanding resistance to bead fracture from attrition or osmotic shock and offers a minimum of pressure drop across the bed.

Basic Features:

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|-----------------------|--|
| Application | 10% DVB crosslinked resin used in Mixed Bed applications |
| Polymer Structure | Gel polystyrene crosslinked with divinylbenzene |
| Appearance | Spherical beads |
| Functional Group | Sulphonic acid |
| Ionic form as shipped | Na ⁺ |

Typical Physical and Chemical Characteristics:

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|-------------------------------|----------------------------------|-------------------------------|
| Total Capacity (min.) | Na ⁺ | 2.20 eq/l |
| Total Capacity (min.) | Na ⁺ | 48.03 kGr/ft ³ |
| Moisture Retention | Na ⁺ | 40-43 % |
| Mean Size Typical | | 0.65-0.90 mm |
| Uniformity Coefficient (max.) | | 1.70 |
| Reversible Swelling (max.) | Na ⁺ → H ⁺ | 6 % |
| Specific Gravity | | 1.30 g/ml |
| Shipping Weight (approx.) | | 820-860 g/l |
| Shipping Weight (approx.) | | 51.3-53.8 lbs/ft ³ |
| Temp Limit | H ⁺ | 120 °C |
| Temp Limit | H ⁺ | 250 °F |
| Temp Limit | Na ⁺ | 140 °C |
| Temp Limit | Na ⁺ | 285 °F |
| pH Limits | | 0-14 |

USA
 Telephone: (1) 610-668-9090
 Fax: (1) 610-668-8139
 Email: info@puroliteusa.com

Europe
 Telephone: +44 1443 229334
 Fax: +44 1443 227073
 Email: sales@purolite.com

Asia Pacific
 Telephone: +86 571 876 31385
 Fax: +86 571 876 31385
 Email: pultalan@purolitechina.com