

Macroporous Strong Acid Cation Exchange Resin

Purolite C150MB is a macroporous poly(styrene sulphonate) cation-exchange resin with excellent resistance to both osmotic and thermal shock designed specifically as the cation component in mixed beds both for make-up and polishing applications. Its special sponge-like structure permits higher rates of diffusion of most cations including those of heavy metals and amines and also positively charged organics of higher molecular weight, and facilitates their removal on regeneration. These properties of physical robustness, good regenerability, and fast kinetics of exchange make it ideal for water purification to high mixed-bed quality, particularly when used in conjunction with Purolite A500MB. Purolite C150MB with its specially tailored particle size offers near perfect separation, so making it suitable for make-up and certain condensate polishing, for hydrometallurgy, and demineralisation of numerous organic solutions. However where clean separation alone is not enough, because of the risk of regenerant cross contamination, PuroliteTRILITE or Purofine may be preferable. Please contact your local Purolite Office for details.

Basic Features:

Application	Demineralization - Mixed Bed
Polymer Structure	Macroporous polystyrene crosslinked with divinylbenzene
Appearance	Spherical beads
Functional Group	Sulphonic acid
Ionic form as shipped	Na ⁺

Typical Physical and Chemical Characteristics:

Total Capacity (min.)	Na ⁺	1.80 eq/l
Total Capacity (min.)	Na ⁺	39.30 kGr/ft ³
Moisture Retention	Na ⁺	48-53 %
Mean Size Typical		0.65-0.90 mm
Uniformity Coefficient (max.)		1.70
Reversible Swelling (max.)	Na ⁺ → H ⁺	4 %
Specific Gravity		1.25 g/ml
Shipping Weight (approx.)		790-825 g/l
Shipping Weight (approx.)		49.4-51.6 lbs/ft ³
Temp Limit	H ⁺	120 °C
Temp Limit	H ⁺	250 °F

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

Temp Limit	Na ⁺	140 °C
Temp Limit	Na ⁺	285 °F
pH Limits		0-14

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