

Gel Type I Strong Base Anion Exchange Resin

Purolite A400MB/C is a low TOC version of a strong-base anion exchanger with both high operating capacity and the ability to achieve low residual silica levels for use in demineralization. It has a clear gel structure, showing excellent regeneration efficiency and rinse characteristics. Purolite A400MB/C has exceptional physical stability for a conventional gel-type resin, which permits a long life without the development of excessive pressure drop; it also shows good kinetics of exchange, enabling very low concentration levels of both strong and weak acid anions to be achieved at practical flow rates. Purolite A400MB/C has been especially cleaned during its production to enable faster start-up of demineralization systems, where low delta TOC levels are important. Any unused resin should not be left open for use at a later date, because of the possibility of external contamination.

Basic Features:

Application	High Efficiency Silica Removal - Mixed Beds
Polymer Structure	Gel polystyrene crosslinked with divinylbenzene
Appearance	Spherical beads
Functional Group	Type 1 Quaternary Ammonium
Ionic form as shipped	Cl ⁻

Typical Physical and Chemical Characteristics:

Total Capacity (min.)	Cl ⁻	1.30 eq/l
Total Capacity (min.)	Cl ⁻	28.38 kGr/ft ³
Moisture Retention	Cl ⁻	48-54 %
Mean Size Typical		0.65-0.90 mm
Uniformity Coefficient (max.)		1.70
Reversible Swelling (max.)	Cl ⁻ → OH ⁻	20 %
Specific Gravity		1.08 g/ml
Shipping Weight (approx.)		680-710 g/l
Shipping Weight (approx.)		42.5-44.7 lbs/ft ³
Temp Limit	OH ⁻	60 °C
Temp Limit	OH ⁻	140 °F
Temp Limit	Cl ⁻	100 °C
Temp Limit	Cl ⁻	212 °F
pH Limits		0-14 (Stability)

pH Limits

OH⁻

1-10 (Operating)

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