

Mixed Bed Exchange Resin

Purolite MB400 is a high quality resin mixture for direct purification of water. It is suitable for use in regenerable or non-regenerable cartridges and in large ion exchange units. Passage of water at recommended flow rates through the resin as supplied can achieve almost complete reduction of total dissolved solids. The residuals produce average conductivity values of about 0.1  $\mu\text{s cm}^{-1}$  for a major portion of the service run which may be extended depending upon the final water quality acceptable. Equivalent volumes of ultra pure water may be obtained after regeneration but only if sufficient regenerant quantities are employed to achieve the percentage conversion levels equivalent to those of the "as supplied" resin. Generally acceptable capacity and quality is obtained economically at lower regeneration

**Basic Features:**

Application	Demineralization - High Purity Silica Free
Polymer Structure	Gel polystyrene crosslinked with divinylbenzene
Appearance	Spherical beads
Functional Group	Sulphonic Acid and Type 1 Quaternary Ammonium
Ionic form as shipped	H <sup>+</sup> / OH <sup>-</sup>

**Typical Physical and Chemical Characteristics:**

Cation Component		Gel Strong Acid Cation
Anion Component		Gel Strong Base Anion
Cation / Anion Ratio		40 / 60 %
Total Capacity (min.)	Na <sup>+</sup>	1.90 eq/l
Total Capacity (min.)	Na <sup>+</sup>	41.50 kGr/ft <sup>3</sup>
Total Capacity (min.)	Cl <sup>-</sup>	1.30 eq/l
Total Capacity (min.)	Cl <sup>-</sup>	28.40 kGr/ft <sup>3</sup>
Moisture Content		65 %
Mean Size Typical		0.60-0.85 mm
Uniformity Coefficient (max.)		1.70
Shipping Weight (approx.)		705-740 g/l
Shipping Weight (approx.)		44.1-46.3 lbs/ft <sup>3</sup>
Temp Limit	Non-Regenerable Bed	100 °C
Temp Limit	Non-Regenerable Bed	212 °F
Temp Limit	Regenerable Bed	60 °C

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Temp Limit	Regenerable Bed	140 °F
pH Limits		0-14

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