

Purolite® MB400

Ready to Use Mixed Beds

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.

The theoretical total combined capacity in the regenerated form is 0.55 eq/l.

TYPICAL PHYSICAL AND CHEMICAL CHARACTERISTICS

BASIC FEATURES:

Application	Demineralization - High quality; general purpose
Polymer Structure	Gel polystyrene crosslinked with divinylbenzene
Appearance	Spherical beads
Functional Group	Sulfonic Acid and Type 1 Quaternary Ammonium
Ionic Form as Shipped	H ⁺ / OH ⁻

PRODUCT INFORMATION:

	Cation	Anion
Component	Gel strong acid cation	Gel type 1 strong base anion
Cation / Anion Volumetric Ratio	40 %	60 %
Moisture Content	65 % (max)	
Particle Size Range	300 - 1200 μm	
Uniformity Coefficient (max.)	1.7	
<300 μm (max.)	1 %	
Temp Limit, Non-Regenerable Bed	100°C (212°F)	
Temp Limit, Regenerable Bed	60°C (140°F)	
Shipping Weight (approx.)	705 - 740 g/l (44.1 - 46.3 lb/ft ³)	