

*Mixed Bed 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.

**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** -  $\text{H}^+$  /  $\text{OH}^-$

**PRODUCT INFORMATION:**

	Cation	Anion
<b>Component</b>	Strong Acid Cation Gel	Strong Base Anion Gel
<b>Cation / Anion Volumetric Ratio</b>	40%	60%
<b>Total Capacity, (min.)</b>	1.9 eq/l (41.5 Kgr/ft <sup>3</sup> ) ( $\text{Na}^+$ form)	1.3 eq/ (28.4 Kgr/ft <sup>3</sup> ) ( $\text{Cl}^-$ form)
<b>Moisture Retention</b>	65 % max.	
<b>Mean Diameter</b>	725 $\pm$ 125 $\mu\text{m}$	
<b>Uniformity Coefficient (max.)</b>	1.7	
<b>Shipping Weight (approx.)</b>	705-740 g/l (44.1-46.3 lbs/ft <sup>3</sup> )	
<b>Temp Limit, Non-Regenerable Bed</b>	100 °C (212 °F)	
<b>Temp Limit, Regenerable Bed</b>	60 °C (140 °F)	

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