

#### Mixed Bed Exchange Resin

Purolite MB600 is a high quality resin mixture for direct purification of water. It is suitable for use in regenerable and 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  $\mu\text{S}/\text{cm}$  for a major portion of the service run, which may be extended depending on the final water quality acceptable. Equivalent volumes of pure demineralised water may be obtained after regeneration if sufficient regenerant quantities are employed to achieve the percentage conversion levels similar to those of the "as supplied" resin. This Purolite Mixed Bed Resin is supplied in air-tight packaging which contains both cationic and anionic component resins in the highly regenerated forms which ensures direct production of treated, demineralized water of the highest quality. Exposure of the mixture to the atmosphere for lengthy periods can result in some loss in hydroxide sites of the anion component by conversion to carbonate from carbon dioxide in the atmosphere. This can give rise to loss of treated water quality. Accordingly the resin should be loaded into the cartridges as soon as possible after opening the bags, and any unused resin repacked in airtight packaging which is impervious to daylight.

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

#### 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.)	$\text{Na}^+$	1.90 eq/l
Total Capacity (min.)	$\text{Na}^+$	41.50 kGr/ft <sup>3</sup>
Total Capacity (min.)	$\text{Cl}^-$	1.40 eq/l
Total Capacity (min.)	$\text{Cl}^-$	30.60 kGr/ft <sup>3</sup>
Moisture Content	65 %	
Mean Size Typical	0.60-0.85 mm	
Uniformity Coefficient (max.)	1.70	
Shipping Weight (approx.)	715-750 g/l	
Shipping Weight (approx.)	44.7-46.9 lbs/ft <sup>3</sup>	

**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	Non-Regenerable Bed	100 °C
Temp Limit	Non-Regenerable Bed	212 °F
Temp Limit	Regenerable Bed	60 °C
Temp Limit	Regenerable Bed	140 °F
pH Limits		0-14

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