

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 - Regenerable Standard Mixed Bed
Polymer Structure	Gel polystyrene crosslinked with divinylbenzene
Appearance	Spherical beads
Functional Group	Sulphonic Acid and Type 1 Quaternary Ammonium
Ionic form as shipped	H ⁺ / 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.)	Na ⁺	1.90 eq/l
Total Capacity (min.)	Na ⁺	41.50 kGr/ft ³
Total Capacity (min.)	Cl ⁻	1.30 eq/l
Total Capacity (min.)	Cl ⁻	28.40 kGr/ft ³
Moisture Content (max.)	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 ³	
Temp Limit	Non-Regenerable Bed	100 °C
Temp Limit	Non-Regenerable Bed	212 °F
Temp Limit	Regenerable Bed	60 °C

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	Regenerable Bed	140 °F
pH Limits		0-14

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