

High Purity Water - Mixed Bed Resin

Purolite resins are processed to the most exacting specifications. They are specially purified to ensure high percentage conversion to their regenerated form, and are offered in closely controlled particle size ranges. All products in the Purolite range have whole perfect beads typically over 95%. They meet the specifications required by major engineering companies throughout the world. Purolite's mixed bed products are used in the production of ultra pure and demineralized water and in the manufacture and purification of pharmaceutical products. Mixed bed resins are frequently used in polishers following other types of water treatment. The high product quality ensures that it is possible to achieve treated water of the highest purity - resistivity >18.2 megohm-cm.. The component resins of **Purolite MB3710**, Purolite strong base type 1 anion exchanger and strong acid cation exchanger are combined in the ratio which for general types of water to be treated yields the optimum exchangeable capacity. Other ratios are available on request. Purolite mixed bed resins can be used for both regenerable or non-regenerable (cartridge) systems.

Basic Features:

Application	Polishing 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 Acid Anion	
Cation / Anion Ratio	40/60 %	
Total Capacity (min.)	Na ⁺	2.00 eq/l
Total Capacity (min.)	Na ⁺	43.70 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	0.65-0.9 mm	
Uniformity Coefficient (max.)	1.70	
Shipping Weight (approx.)	705 - 740 g/l	
Shipping Weight (approx.)	44.1 - 46.3 lbs/ft ³	

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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

US Water
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