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PUROLITE ION EXCHANGE RESINS

Product Data Sheet

PUROLITE® A500MBOH

Strong Base Anion Macroporous

Macroporous Type I Strong Base Anion Resin

Purolite A500MBOH is a macroporous, polyvinylbenzyl-trimethylammonium exchanger in the hydroxide form and is crosslinked with divinylbenzene. Its bead size range is especially tailored for the use as the anion component in mixed bed demineralisation units. Separation of the anion and cation components, prior to the regeneration of any mixed bed is one of the major factors in obtaining a high quality treated water. The particle size and resin density of Purolite cation and anion component resins are specially optimised to afford excellent separation. **Purolite A500MBOH** is especially useful where conditions of operation are difficult, where the resin could be subjected to osmotic stress, or to high flow rates. The unique porous structure has been designed for use in the demineralisation of aqueous solutions, including those containing appreciable quantities of high molecular weight organic materials of the fulvic or humic acid type. Its resistance to fouling is superior to that of both gel resins and many other typical macroporous resins. It also has excellent resistance to osmotic and thermal shock. **Purolite A500MBOH** has a very high affinity for strong mineral acid anions, organics and silica. This property is extremely useful for the production of treated water of very high quality. However this advantage results in the need for an efficient regeneration. A high level of regeneration is also useful where high treated water quality is required, or where there are high levels of organics in the inlet water.

Basic Features:

Application	Demineralization - Mixed Bed
Polymer Structure	Macroporous polystyrene crosslinked with divinylbenzene
Appearance	Spherical beads
Functional Group	Type 1 Quaternary Ammonium
Ionic form as shipped	OH^-

Typical Physical and Chemical Characteristics:

Total Capacity (min.)	Cl^-	1.15 eq/l
Total Capacity (min.)	Cl^-	25.11 kGr/ft^3
Moisture Retention	Cl^-	53-58 %
Mean Size Typical		0.65-0.90 mm
Uniformity Coefficient (max.)		1.70
Reversible Swelling (max.)	$Cl^- \rightarrow OH^-$	15 %
Specific Gravity		1.07 g/ml
Shipping Weight (approx.)		675-705 g/l
Temp Limit	OH^-	65 °C
Temp Limit	OH^-	150 °F
Temp Limit	Cl^-	100 °C

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Temp Limit	Cl^-	212 °F
pH Limits		0-14 (Stability)
pH Limits	H^+	0-11 (Operating)

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