

#### Gel Type I Strong Base Anion Exchange Resin

Purolite A400MBOH IND is a high quality, high capacity, strong base type 1 anion exchange resin with self indication. Purolite A400MBOH IND is usually used as anion component of mixed beds for regenerable and non-regenerable cartridges, but it can also be employed in larger ion exchange units for water treatment and in smaller devices for the adsorption of acid fumes. Purolite A400MBOH IND holds an indicator which changes its color according to the ionic form of the resin. The fully regenerated resin has a blue-green color which disappears when the resin becomes exhausted, hence the resin regains its original amber color. Purolite A400MBOH IND is used as the anion component of the mixed bed Purolite MB400 IND. Passage of water at recommended flow rates through this mixed bed resin, as supplied, can achieve almost complete reduction of total dissolved solids. The residuals produce average conductivity values of about 0.1 µS/cm for a major portion of the service run. However it will be necessary to cease water production shortly prior to complete colour change if highest quality water is essential. Generally water with a conductivity between 5-30 µS/cm is obtained when the green-blue color finally disappears. Being a strong base type 1 anion exchanger, Purolite A400MBOH IND requires relatively high regenerant levels to achieve a percentage conversion equivalent to that of the “as supplied” resin. Acceptable capacity and treated water quality can however be obtained also at lower, more economical regeneration levels. Caution: The product shall be stored in original bags or in other suitable air tight containers. The resin should not lose its moisture and should not be left in contact with the atmosphere for more than the time needed for repackaging. Keep the product stored in a dark place.

#### Basic Features:

Application	Regeneration Efficient Demineralization - Mixed Beds - Indicator
Polymer Structure	Gel 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 <sup>-</sup>	1.30 eq/l
Total Capacity (min.)	Cl <sup>-</sup>	28.38 kGr/ft <sup>3</sup>
Moisture Retention	Cl <sup>-</sup>	48-54 %
Mean Size Typical		0.65-0.90 mm
Uniformity Coefficient (max.)		1.70
Reversible Swelling (max.)	Cl <sup>-</sup> → OH <sup>-</sup>	20 %
Specific Gravity		1.07 g/ml
Shipping Weight (approx.)		665-695 g/l
Shipping Weight (approx.)		41.6-43.4 lbs/ft <sup>3</sup>

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Temp Limit	OH <sup>-</sup>	60 °C
Temp Limit	OH <sup>-</sup>	140 °F
Temp Limit	Cl <sup>-</sup>	100 °C
Temp Limit	Cl <sup>-</sup>	212 °F
pH Limits		0-14 (Stability)

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