

Macroporous Strong Base Anion Exchange Resin

Purolite A860 is a macroporous type 1 strong base anion exchange resin with an acrylic matrix. The acrylic matrix ensures excellent removal of organic matter from a water supply in conjunction with their reversible removal upon regeneration. This resin is regenerated very efficiently with lower levels of sodium hydroxide than those required for a polystyrene based type 1 resin, and yet it has a comparable ability to remove weaker acids including carbonic acid and silica. Its use in combination with a polystyrene based resin (for instance in a mixed bed positioned after the anion unit) can often result in the removal of a wider spectrum of organic compounds than either type of anion resin alone, and is particularly resistant to organic fouling, even where loadings are relatively high.

**Basic Features:**

|                       |   |
|-----------------------|---|
| Application           | Decolourisation of Organic Solutions (Sugar Syrups). Organic Scavenger. |
| Polymer Structure     | Macroporous polyacrylic crosslinked with divinylbenzene                 |
| Appearance            | Spherical beads   |
| Functional Group      | Quaternary Ammonium   |
| Ionic form as shipped | Cl <sup>-</sup>   |

**Typical Physical and Chemical Characteristics:**

|                               |                                   |                           |
|-------------------------------|-----------------------------------|---------------------------|
| Total Capacity (min.)         | Cl <sup>-</sup>                   | 0.80 eq/l                 |
| Total Capacity (min.)         | Cl <sup>-</sup>                   | 17.47 kGr/ft <sup>3</sup> |
| Moisture Retention            | Cl <sup>-</sup>                   | 66-72 %                   |
| Mean Size Typical             |                                   | 0.60-0.85 mm              |
| Uniformity Coefficient (max.) |                                   | 1.70                      |
| Irreversible Swelling (max.)  |                                   | 10                        |
| Reversible Swelling (max.)    | Cl <sup>-</sup> → OH <sup>-</sup> | 20 %                      |
| Specific Gravity              |                                   | 1.08 g/ml                 |
| Shipping Weight (approx.)     |                                   | 680-730 g/l               |
| Temp Limit                    | OH <sup>-</sup>                   | 40 °C                     |
| Temp Limit                    | OH <sup>-</sup>                   | 104 °F                    |
| Temp Limit                    | Cl <sup>-</sup>                   | 80 °C                     |
| Temp Limit                    | Cl <sup>-</sup>                   | 175 °F                    |
| pH Limits                     |                                   | 1-10 (Stability)          |

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pH Limits                      H<sup>+</sup>                      1-14 (Operating)

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