PUROLITE

# A-860

**Strong-Base Type I Acrylic Anion Exchange Resin**

(FOR USE IN DEMINERALISATION OF WATER CONTAINING ORGANIC MATTER)

Technical Data

## PRODUCT DESCRIPTION

**Purolite A-860** 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.

### Typical Chemical & Physical Characteristics

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| **Polymer Matrix Structure** | **Cross-linked Gel Acrylic** |
| **Appearance** | **Opaque White Spherical Beads** |
| **Whole Beads** | **95% min** |
| **Functional Groups** | **Quaternary Ammonium** |
| **Ionic Form (as shipped)** | **$Cl^-$** |
| **Shipping Weight** | **680-715 g/l [42.5-44.5 lb/ft$^3$]** |
| **Screen Size(British Standard screen)** | **14-52 mesh wet** |
| **(U.S. Standard screen)** | **16-50 mesh wet** |
| **Particle Size Range** | **+1.2 mm < 5%: -0.3 mm < 1%** |
| **Moisture Retention , $Cl^-$ form** | **66-72%** |
| **Irreversible Swelling** | **10% max** |
| **Reversible Swelling $Cl^- \rightarrow OH^-$** | **15%max** |
| **Specific Gravity** | **1.09** |
| **Total Exchange Capacity,$Cl^-$ form** | **0.8 eq/l min** |
| **Operating Temperature (max) :** | **40°C(100°F)** |
| **pH range** | **no limitations** |