

#### Gel Strong Base Anion Exchange Resin

Puopack A850 is a specially produced, premium narrow size grading, acrylic gel type-I strong base anion exchange resin. 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. It is one of a range of Puopack products manufactured for use in modern day water treatment applications. Puopack A850 is especially recommended for use in all counterflow demineralization systems, including the Puopack system. It has a specially tailored size grading which provides for economical regeneration by counterflow techniques. Puopack is a maximum performance packed bed system which provides a combination of superior engineering principles and improved resins that together optimize water treatment plant performance. For more information please refer to the Puopack Manual or your local Purolite Sales Office.

#### Basic Features:

|                       |   |
|-----------------------|---|
| Application           | Regeneration Efficient Demineralization - Narrow Size Grading |
| Polymer Structure     | Gel 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>                   | 1.25 eq/l                     |
| Total Capacity (min.)         | Cl <sup>-</sup>                   | 27.29 kGr/ft <sup>3</sup>     |
| Moisture Retention            | Cl <sup>-</sup>                   | 57-62 %                       |
| Mean Size Typical             |                                   | 0.60-0.70 mm                  |
| Uniformity Coefficient (max.) |                                   | 1.20                          |
| Irreversible Swelling (max.)  |                                   | 10 %                          |
| Reversible Swelling (max.)    | Cl <sup>-</sup> → OH <sup>-</sup> | 15 %                          |
| Specific Gravity              |                                   | 1.09 g/ml                     |
| Shipping Weight (approx.)     |                                   | 680-730 g/l                   |
| Shipping Weight (approx.)     |                                   | 42.5-45.6 lbs/ft <sup>3</sup> |
| 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  |                 | 0-14 (Stability) |
| pH Limits  | OH <sup>-</sup> | 1-10 (Operating) |

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