

Gel Type Weak Base Anion Exchange Resin

Purolite A835DL is a macroporous-type anion exchange resin with an acrylic matrix. The macroporous acrylic matrix ensures excellent removal of organic acids including those of high molecular weight from process liquors. The desorption which occurs upon regeneration markedly reduces the risk of resin fouling, thus maintaining the high operating capacity. Purolite A835DL is regenerated very efficiently with lower levels of sodium hydroxide than those required for an equivalent polystyrene based resin. 110-120% of the stoichiometric quantity is usually sufficient. The tough resilient macroporous structure affords excellent mechanical strength and resistance to osmotic shock. The higher than average basicity offers advantages in removal of a wider range of more weakly acidic materials in many special applications.

**Basic Features:**

|                       |   |
|-----------------------|---|
| Application           | Demineralization of Water High in Organic Matter - Layered Beds |
| Polymer Structure     | Gel Polyacrylic crosslinked with Divinylbenzene                 |
| Appearance            | Spherical beads   |
| Functional Group      | Tertiary Amine  |
| Ionic form as shipped | Free Base   |

**Typical Physical and Chemical Characteristics:**

|                               |                      |                               |
|-------------------------------|----------------------|-------------------------------|
| Total Capacity (min.)         | Free Base            | 1.60 eq/l                     |
| Total Capacity (min.)         | Free Base            | 34.93 kGr/ft <sup>3</sup>     |
| Moisture Retention            | Free Base            | 56-62 %                       |
| Mean Size Typical             |                      | 0.45-0.55 mm                  |
| Uniformity Coefficient (max.) |                      | 1.40                          |
| Irreversible Swelling (max.)  |                      | 5                             |
| Reversible Swelling (max.)    | FB → Cl <sup>-</sup> | 25 %                          |
| Specific Gravity              |                      | 1.08 g/ml                     |
| Shipping Weight (approx.)     |                      | 675-705 g/l                   |
| Shipping Weight (approx.)     |                      | 42.4-44.1 lbs/ft <sup>3</sup> |
| Temp Limit                    | FB                   | 40 °C                         |
| Temp Limit                    | FB                   | 104 °F                        |
| Temp Limit                    | Cl <sup>-</sup>      | 100 °C                        |
| Temp Limit                    | Cl <sup>-</sup>      | 212 °F                        |
| pH Limits                     |                      | 0-14 (Stability)              |

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pH Limits                      H<sup>+</sup>                      0-9 (Operating)

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