

#### Gel Type Weak Base Anion Exchange Resin

Purofine PFA847 is a gel-type anion exchange resin with an acrylic matrix. The acrylic matrix ensures excellent removal of organic matter from water supplies in conjunction with its reversible removal upon regeneration. Following regeneration return to service is very efficient because of lower than average rinse requirement. The weak base functionality results in high capacity and high regeneration efficiency. Reduced quantities of sodium hydroxide are sometimes required, compared with a polystyrene based resin. 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. Purofine PFA847 is particularly useful for the treatment of organic bearing waters which have caused organic fouling of polystyrene resins. Purofine PFA847 has excellent chemical and thermal stability, resistance to attrition and osmotic shock. These properties make the resin ideal for use in the pharmaceutical, chemical, and food processing industries, for the neutralization of strong acids and for other processes. While there are several other specially-tailored macroporous intermediate-base resins in the Purolite A847 series, Purofine PFA847 offers highest performance characteristics combining excellent regenerability, resistance to fouling, fast kinetics, osmotic shock resistance, low pressure drop and improved operating capacity.

#### Basic Features:

|                       |                                                                       |
|-----------------------|-----------------------------------------------------------------------|
| Application           | Water Treatment - Low Rinse Volumes and High Purity - Uniformly Sized |
| 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             |                      | 0.52-0.62 mm                  |
| Uniformity Coefficient (max.) |                      | 1.20                          |
| 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) |
| pH Limits  | H <sup>+</sup>  | 0-9 (Operating)  |

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