

Gel Type II Strong Base Anion Exchange Resin

Purofine PFA200 is a gel-type II strong base anion exchange resin which because of its special narrow size distribution has particularly high operating capacity at lower regeneration levels, where its superior regeneration efficiency is most marked. It is the resin of choice where the water to be treated contains a high proportion of mineral acids (as opposed to silica). It is also less susceptible to organic fouling than are standard gel-type strong base anion resins, and is superior to both conventionally graded gel-type resins and to other gel-type II resins of narrow particle size range. Consequently higher purity treated water (or other solution) can generally be obtained. Also rinse volumes, and hence times of rinsing are considerably reduced. However normal care should be taken that the maximum temperature of operation and regeneration applicable to type II resins (given below) is not habitually exceeded. Nevertheless Purofine PFA200 is generally superior to most other type II resins in in terms of thermal stability, which can lead to extended operational life. However, when higher regeneration levels are used, Purofine PFA300 can offer a higher operating capacity. For levels up to 100g of NaOH per liter of resin, the operating curves for Purolite PFA300 should be used. The increased capacity which is available from Purofine type II resins may be used to obtain longer runs and higher throughputs, which can also be realized where small or shallow resin beds are required. These significant advantages result from improved optimum rates of ion exchange loading and regeneration. Thus significant economies may be made both to operating and capital costs.

Basic Features:

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| Application | Regeneration Efficient Demineralization - Uniformly Sized |
| Polymer Structure | Gel polystyrene crosslinked with divinylbenzene |
| Appearance | Spherical beads |
| Functional Group | Type 2 Quaternary Ammonium |
| Ionic form as shipped | Cl ⁻ |

Typical Physical and Chemical Characteristics:

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|-------------------------------|-----------------------------------|-------------------------------|
| Total Capacity (min.) | Cl ⁻ | 1.30 eq/l |
| Total Capacity (min.) | Cl ⁻ | 28.38 kGr/ft ³ |
| Moisture Retention | Cl ⁻ | 45-51 % |
| Mean Size Typical | | 0.52-0.62 mm |
| Uniformity Coefficient (max.) | | 1.20 |
| Reversible Swelling (max.) | Cl ⁻ → OH ⁻ | 15 % |
| Specific Gravity | | 1.08 g/ml |
| Shipping Weight (approx.) | | 670-690 g/l |
| Shipping Weight (approx.) | | 41.9-43.1 lbs/ft ³ |
| Temp Limit | OH ⁻ | 35 °C |
| Temp Limit | OH ⁻ | 104 °F |

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|------------|-----------------|------------------|
| Temp Limit | Cl ⁻ | 85 °C |
| Temp Limit | Cl ⁻ | 185 °F |
| pH Limits | | 0-14 (Stability) |
| pH Limits | OH ⁻ | 1-10 (Operating) |

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