

Gel Type I Strong Base Anion Exchange Resin

Purolite A400TL is a strong-base anion exchanger with both the high operating capacity and the ability to achieve low residual silica levels with minimal caustic soda requirement. The clear gel structure shows excellent regeneration efficiency and good rinse characteristics. Purolite A400TL is specially designed as the anion component of TRILITE mixed beds for make-up or condensate polishing where its consistency of particle size results in good separation. The specially tailored narrow size grading ensures near perfect separation from its partner TL grade cation component when separating by backwashing. The larger spheres of the narrowly graded cation resin separate cleanly from the smaller spheres of partner anion component. This clean separation is maintained even when resin density differences are reduced as a result of fouling, or from matrix modifications caused by oxidative or thermal degradation. The use of an inert polymer Purolite IP-3 or IP-7, because of its special particle size grading and density classifies to space the cation and anion layers. It so provides a means to avoid cross contamination of regenerants in in-situ regeneration, and to ensure efficient separation of partner resins in resin transfer for regeneration. Purolite A400TL has excellent physical stability which permits a long life without the development of excessive pressure drop, even when operating at high flow rates; it also shows good kinetics of exchange, enabling the reduction to very low concentration levels of both strong and weak acid anions at practical flowrates. It is recommended for use in conjunction with Purolite C100TL or C100x10TL in both in situ regeneration and in resin transfer systems, where treated water of the highest purity is required.

Basic Features:

| | |
|-----------------------|---|
| Application | Regeneration Efficient Demineralization / Silica Removal - Mixed Beds |
| Polymer Structure | Gel polystyrene crosslinked with divinylbenzene |
| Appearance | Spherical beads |
| Functional Group | Type 1 Quaternary Ammonium |
| Ionic form as shipped | Cl ⁻ |

Typical Physical and Chemical Characteristics:

| | | |
|-------------------------------|-----------------------------------|-------------------------------|
| Total Capacity (min.) | Cl ⁻ | 1.30 eq/l |
| Total Capacity (min.) | Cl ⁻ | 28.38 kGr/ft ³ |
| Moisture Retention | Cl ⁻ | 48-54 % |
| Mean Size Typical | | 0.60-0.78 mm |
| Uniformity Coefficient (max.) | | 1.30 |
| Reversible Swelling (max.) | Cl ⁻ → OH ⁻ | 20 % |
| 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 ⁻ | 60 °C |

USA
Telephone: (1) 610-668-9090
Fax: (1) 610-668-8139
Email: info@puroliteusa.com

Europe
Telephone: +44 1443 229334
Fax: +44 1443 227073
Email: sales@purolite.com

Asia Pacific
Telephone: +86 571 876 31385
Fax: +86 571 876 31385
Email: pultalan@purolitechina.com

| | | |
|------------|-----------------|------------------|
| Temp Limit | OH ⁻ | 140 °F |
| Temp Limit | Cl ⁻ | 100 °C |
| Temp Limit | Cl ⁻ | 212 °F |
| pH Limits | | 0-14 (Stability) |
| pH Limits | OH ⁻ | 1-10 (Operating) |

USA
Telephone: (1) 610-668-9090
Fax: (1) 610-668-8139
Email: info@puroliteusa.com

Europe
Telephone: +44 1443 229334
Fax: +44 1443 227073
Email: sales@purolite.com

Asia Pacific
Telephone: +86 571 876 31385
Fax: +86 571 876 31385
Email: pultalan@purolitechina.com