

Macroporous Type I Strong Base Anion Exchange Resin

Purolite® Tanex is a proprietary blend of special and patented anion exchange resins used for removal of tannins and organic matter in water used primarily for potable applications. Purolite Tanex is useful in reducing more difficult-to-control organic matter and color that may exist as partially dissolved and partially colloidal in nature.

The organic fraction is typically bound up with colloidal particles of silica, iron or aluminum in a stable complex that is difficult to remove by standard ion exchange only. On exhaustion, regeneration with 10% brine solution at a dosage of approximately 128 g/l or 8 lbs/ft³ is usually sufficient to restore operating capacity. In smaller less demanding applications, it may be practical to simply top-dress an existing water softener as this eliminates extra equipment and allows use of the same brine solution to regenerate all resins. Top dressing of existing water should not be done if the water hardness is 10 gpg or more.

Typical Physical and Chemical Characteristics

Application	Removal of tannins and other organic matter from water
Polymer Structure	Styrene and Acrylic Crosslinked with Divinylbenzene
Appearance	Spherical Beads
Functional Group	Quaternary Amine
Ionic Form as Shipped	Chloride
Moisture Retention	68 - 75 % (Cl ⁻ form)
Particle Size Range	300 - 1200 µm
<300 µm (max.)	1 %
Uniformity Coefficient (max.)	1.7
Shipping Weight (approx.)	600 - 700 g/l (37.5 - 43.8 lb/ft ³)
Temp Limit, Cl ⁻ Form	60°C (140°F)