

Gel Type I Strong Base Anion Exchange Resin

Purolite A600 is a clear gel Type I strong-base anion exchanger with both high operating capacity and the ability to achieve low residual silica levels. Minimal quantities of caustic soda are required compared with those typical of the classical Type I (Purolite A600) quaternary ammonium structure based on polystyrene. It has a clear gel structure, showing excellent regeneration efficiency and rinse characteristics. Purolite A600DL functions well in layered bed demineralizer systems, where specially tailored particle size ranges result in achieving or maintaining good separations. Purolite A600DL has exceptional physical stability for a conventional gel-type resin which permits a long life without the development of excessive pressure drop; it also shows good kinetics of exchange, enabling very low concentration levels of both strong and weak acid anions to be achieved at practical flowrates.

**Basic Features:**

Application	Efficient Demineralization / Silica Removal - Layered Beds
Polymer Structure	Gel polystyrene crosslinked with divinylbenzene
Appearance	Spherical beads
Functional Group	Type 1 Quaternary Ammonium
Ionic form as shipped	Cl <sup>-</sup>

**Typical Physical and Chemical Characteristics:**

Total Capacity (min.)	Cl <sup>-</sup>	1.40 eq/l
Total Capacity (min.)	Cl <sup>-</sup>	30.57 kGr/ft <sup>3</sup>
Moisture Retention	Cl <sup>-</sup>	43-48 %
Mean Size Typical		0.85-1.00 mm
Uniformity Coefficient (max.)		1.40
Reversible Swelling (max.)	Cl <sup>-</sup> → OH <sup>-</sup>	20 %
Specific Gravity		1.09 g/ml
Shipping Weight (approx.)		680-710 g/l
Shipping Weight (approx.)		42.5-44.4 lbs/ft <sup>3</sup>
Temp Limit	OH <sup>-</sup>	60 °C
Temp Limit	OH <sup>-</sup>	140 °F
Temp Limit	Cl <sup>-</sup>	100 °C
Temp Limit	Cl <sup>-</sup>	212 °F
pH Limits		0-14 (Stability)

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

pH Limits                      OH<sup>-</sup>                      1-10 (Operating)

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

**Europe**  
Telephone: +44 1443 229334  
Fax: +44 1443 227073  
Email: [sales@purolite.com](mailto:sales@purolite.com)

**Asia Pacific**  
Telephone: +86 571 876 31385  
Fax: +86 571 876 31385  
Email: [pultalan@purolitechina.com](mailto:pultalan@purolitechina.com)