

Product Data Sheet

PUROLITE® A200DL

Strong Base Anion Gel

info@lenntech.com www.lenntech.com Tel. +31-15-261.09.00 Fax. +31-15-261.62.89

Gel Type II Strong Base Anion Exchange Resin

Purolite A200DL is a strong-base anion exchanger with both excellent operating capacity and good kinetics even when regenerant levels are comparitively low. It is especially designed to be used in a layered bed in conjunction with Purolite A100DL in a single vessel. The specially tailored particle size ranges of both resins together with their density differences are designed to maintain separate resin layers at all times. The combination of resins with both strong and weak functionality offers removal of both mineral acids (by the weakly functional resin) and silica plus bicarbonates (by the strongly functional resin). Minimal quantities of caustic soda are required because of the excellent regeneration efficiency of the weakly functional resin. Regeneration up-flow first contacts the strongly functional resin. This contact with high purity regenerant affords excellent removal of the weakly functional anions together with those mineral acids allowed to over-run the weakly basic resin. When the regenerant contacts the top layer of weakly functional resin it is partially exhausted. However, it is not necessary to have pure regenerant to achieve an efficient regeneration of the weakly functional resin. Thus the DOUBLITE SYSTEM offers excellent treated water quality combined with most efficient use of regenerant. Purolite A200DL 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. In a conventional deionizing plant, its silica-removal properties are comparable with those of any premium Type-II strong-base anion exchanger; however, as with other resins of this type, a polishing mixed-bed is necessary to ensure the lowest levels of residual silica. Like all type-II resins, it is not recommended to expose the hydroxide from of the resin to temperatures above 40° C. This results in gradual loss of strong base functionality.

Basic Features:

Application Demineralization - Layered Bed

Polymer Structure Gel polystyrene crosslinked with divinylbenzene

Appearance Spherical beads

Functional Group Type 2 Quaternary Ammonium

Ionic form as shipped CI

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	45-51 %
Mean Size Typical		0.85-1.00 mm
Uniformity Coefficient (max.)		1.40
Reversible Swelling (max.)	$Cl^{-} \rightarrow OH^{-}$	15 %



Product Data Sheet

PUROLITE® A200DL

Strong Base Anion Gel

Specific Gravity		1.08 g/ml
Shipping Weight (approx.)		680-700 g/l
Shipping Weight (approx.)		42.5-43.8 lbs/ft ³
Temp Limit	OH ⁻	35 °C
Temp Limit	OH ⁻	104 °F
Temp Limit	CI ⁻	85 °C
Temp Limit	CI ⁻	185 °F
pH Limits		0-14 (Stability)
pH Limits	OH ⁻	1-10 (Operating)

Lenntech

info@lenntech.com www.lenntech.com Tel. +31-15-261.09.00 Fax. +31-15-261.62.89