

Product Data Sheet

PUROLITE® PFA500S

Strong Base Anion Macroporous

Macroporous Type I Strong Base Anion ExchangeResin

Purofine PFA500S is a macroporous poly(vinylbenzyl-trimethylammonium) type I strong base anion exchange resin which, because of its regeneration efficiency, has particularly high operating capacity at low or even moderate regeneration levels.

It has superior kinetic properties and is relatively less susceptible to organic fouling than standard macroporous type strong base anion resins. Consequently, higher purity treated water or syrups can generally be obtained. These useful advantages are obtained by way of the narrow particle size distribution.

Purofine PFA500S shows enhanced resistance to osmotic and thermal shock and good reversible sorptive capacity for the complex organic materials, both ionized and non-ionized, which occur in many surface water supplies. Its resistance to fouling is superior to that of both gel resins and many typical standard macroporous resins. Excellent results may be obtained with this resin in most of the usual ion exchange column configurations. In conventional two-stage demineralization plants, its silica removal properties are superior to those of most premium strong base anion exchange resins. With influent solutions containing relatively high proportions of bicarbonate and sulphate, working capacities as high as 80% of the total exchange capacity can be achieved.

Basic Features:

Application Sugar Grade Resin - Uniformily Sized

Polymer Structure Macroporous polystyrene crosslinked with divinylbenzene

Appearance Spherical Beads

Functional Group Type 1 Quaternary Ammonium

Ionic form as shipped CI

Typical Physical and Chemical Characteristics:

Total Capacity (min.) CI 1.	.15 eq/l
Total Capacity (min.) CI ⁻ 29	5.10 kGr/ft ³
Moisture Retention CI 53	3 - 58 %
Mean Size Typical 0.	.52 - 0.62 mm
Uniformity Coefficient (max.) 1.	.20
Reversible Swelling (max.) $CI^- \rightarrow OH^-$ 15	5 %

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Specific Gravity		1.08 g/ml
Shipping Weight (approx.)		670 - 690 g/l
Temp Limit	OH ⁻	65 °C
Temp Limit	OH ⁻	150 °F
Temp Limit	Cl	100 °C
Temp Limit	Cl	212 °F
pH Limits		0 - 14 (Stability)

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