

AMINO-PHOSPHONIC CHELATING - WASTE WATER

Purolite S950 is a macroporous aminophosphonic acid chelating resin, designed for the removal of cations of toxic metals such as lead, copper and zinc from industrial effluents at low pH. At somewhat higher pH values, calcium, magnesium and barium, as well as the toxic metals cadmium, nickel, and cobalt are strongly complexed and may be separated from quite high concentrations of univalent cations. Unlike Purolite S930, the well known iminodiacetic acid resin, which is selective for heavy metal ions, but not for common divalent ions (calcium and magnesium), Purolite S950 is more highly selective (under the appropriate conditions) for a range of both heavy metal and common divalent ions. Hence its use may be recommended where it is necessary to remove calcium or magnesium in order to avoid possible precipitation, or where its selectivity for a particular range of metals offers advantages.

Basic Features:

Application	Removal of cations of heavy metals
Polymer Structure	Macroporous crosslinked polymer
Appearance	Spherical beads
Functional Group	Aminophosphonic
Ionic form as shipped	Na

Typical Physical and Chemical Characteristics:

Calcium Capacity min.	24 g/l
Moisture Retention (Na)	60-68 %
Mean Size Typical	0.60-0.85 mm
Uniformity Coefficient (max.)	1.70
Swelling H->Namax	45
Specific Gravity	1.13 g/ml
Shipping Weight (approx.)	710-745 g/l
Temp Limit	Na ⁺ 90 °C
Temp Limit	Na ⁺ 195 °F
pH Limits	0-14 (Stability)
pH Limits	2-6 (H Form)6-11 (Na Form) (Operating)

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