



# Tannin I

## PRODUCT DATA SHEET

### Product Description

Eaglesorb-Tannin I is a macroporous poly (vinylbenzyl-trimethylammonium) exchanger which has been designed for use as an organic scavenger, e.g. for the removal of tannins, fulvic and humic acids, from industrial and domestic water supplies. It will either replace or be used as an adjunct to the traditional carbon adsorbents in special applications. In these, use of this resin is indicated when the requirements are for good thermal stability, together with excellent resistance to osmotic shock and high reversible sorptive capacity for water-soluble complex organic materials of medium to high molecular weight, whether ionized or un-ionised. The resin is normally used in the chloride salt form, ahead of conventional deionizing systems, thus protecting the following anion unit or mixed bed from organic fouling and consequent reduction in operating efficiency. Regeneration is effected using 10% NaCl. The incorporation of 1 – 2% NaOH in the brine promotes the removal of the more strongly-held color bodies.

### Basic Features:

<b>Application:</b>	Removal of Organic Matter from Industrial & Domestic Water Supplies
<b>Polymer Structure:</b>	Macroporous polystyrene crosslinked with divinylbenzene
<b>Appearance:</b>	Spherical beads
<b>Functional Group:</b>	Type 1 Quaternary Ammonium
<b>Ionic Form as Shipped:</b>	Cl <sup>-</sup>

### Product Information:

<b>Total Capacity (min)</b>	0.8 eq/l (17.5 kg/ft <sup>3</sup> ) Cl <sup>-</sup> form
<b>Moisture Retention</b>	63 – 70% (Cl <sup>-</sup> form)
<b>Particle Size Range</b>	300 – 1200 µm
<b>&lt;300 µm (max)</b>	1%
<b>Uniformity Coefficient (max)</b>	1.7
<b>Reversible Swelling, Cl<sup>-</sup> → OH<sup>-</sup> (max)</b>	20%
<b>Specific Gravity</b>	1.04
<b>Temp Limit, Cl<sup>-</sup> form</b>	100° C (212° F)
<b>Temp Limit, OH<sup>-</sup> form</b>	65° C (150° F)