

## Resin Attrition

The operating life of ion exchange resin is dependent on several factors. Attrition loss can be attributed to chlorine in the water, mechanical, osmotic or thermal shock, temperature, dissolved oxygen, and other operating conditions. Many variables are involved and it is difficult to assign general numbers for expected

operating life. Maintenance of the ion exchange system also figures high into the anticipated life of the ion exchange resin. The values presented below can be used as a rule-of-thumb for an “average” system that is receiving proper maintenance and operator attention.

Strong Acid Cation Resin	Attrition loss: 3% per year for 3 years or 1,000,000 gallons per cubic foot, whichever occurs first.
Strong Base Anion Resin	Attrition loss: 25% for 2 years or 1,000,000 gallons per cubic foot, whichever occurs first.
Weak Acid Cation or Weak Base Anion Resin	Attrition loss: 10% per year for 2 years or 750,000 gallons per cubic foot, whichever occurs first.

**NOTE:** Consult ResinTech's Technical Department for more accurate predictions for specific installations.

