

Resin Fouling - Oil Fouled Cation Resins (Bleach Procedure)

GENERAL

This procedure is designed to clean oil fouled strong cation resin without significant damage to the resin. It should be performed only with sodium form resin and not at temperatures above 120°F. The procedure may cause the resin to lose about 1% of its capacity if excess bleach is left in the resin.

PROCEDURE

1. Verify that the resin is exhausted into the sodium form. If necessary, regenerate with 10 pounds of NaCl per cubic foot at 10% concentration.
2. Drain tank to approximately 6 inches above the resin. There should be a minimum of 25% freeboard in the tank above the resin.
3. Make up a bleach solution in any suitable container as follows: For each cubic foot of resin add 0.4 gallons of household laundry bleach (approximately 5% NaOCl), or 0.2 gallon of commercial strength bleach (10% NaOCl), plus water to make 1 gallon.
4. Pour or pump the solution into the tank above the resin.
5. Air mix the resin for 5 to 10 minutes.
6. Let the resin soak in the solution for not less than 1 hour, nor more than 4 hours. Air mix several times during the soak.
7. Rinse out the solution with a minimum of 6 gallons per cubic foot rinse volume.
8. Regenerate the resin, using a minimum of 10 pounds per cubic foot dose of salt. The regeneration should be performed within 24 hours of the bleach procedure.

