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## **POLYMER QUENCHING SYSTEMS CLEAN OUT PROCEDURE**

1. First, the old contaminated quenching fluid should be drained from the sump or the system.
  - a. Also, attempt to remove all scale, chips, debris and dirt from all machine surfaces, transfer lines, filter mechanisms and the sides of the sump, heat exchanger.
  - b. *Failure to do this could result in an immediate contamination of the new quenching fluid immediately after charging. Always use proper protective equipment.*
2. The sump or system should then be recharged with water and ALC 50.
  - a. For systems that are relatively clean, charge ALC 50 at 3.0% by volume with good quality water.
  - b. For dirtier systems, charge the cleaner between 4.0 – 5.0% by volume.
3. Hot water should be used if possible, at least for the initial clean out.
4. The sump/system should be filled with sufficient volume of diluted cleaner to reach all system surfaces so that the cleaner volume reaches a fluid level above the level normally maintained for the quenching fluid.
5. Circulation time will depend upon system size.
  - a. For individually sumped machines of 100 gallons or less, the cleaner solution should be circulated for at least four to eight hours.
  - b. For larger systems, especially central systems of 1000 gallons or more, the cleaner solution should be circulated for at least 24 hours.
6. Attempt to wash or hose down all machine surfaces, transfer lines and filter mechanisms with the cleaner solution to insure the effective removal of all dirt, debris, contaminants and biomass.
7. ALC 50 may also be added to the contaminated fluid prior to dumping the system.
  - a. Utilize the same system concentration recommendations as described above based upon the degree of system contamination. Also utilize the same circulation parameters as listed above.
  - b. Follow-up with an aggressive aqueous rinse using good quality water. If the rinse water exhibits a high degree of contamination, especially bio-mass, a second cleaning sequence may be necessary.

Contact your sales representative for additional technical assistance.