

Furnace process tips:

1. When removing the end cap from tube, push it back straightly. If it is stuck to the tube, move it slightly up and down. (Always put on insulating gloves since it is very hot.) You can also apply this process tip to the cylindrical carrier.
2. When transferring and attaching the cylindrical carrier to the tube, use your both hands: one for grasping the handle and the other for supporting the carrier. This will help you maintain the balance. (Always put on insulating gloves.) If you lose its balance, you will break all of the wafers in the carrier and the wafer boat.
3. When loading the wafer from the cylindrical carrier to the tube, at least three students are necessary: one for pushing the wafer boat, other student for checking the timer, the other student for checking the distance (1 inch per every 10 second). It is recommended for the students, pushing the wafer boat, should wear the face shield.
4. While loading the wafer boat, if you feel the move is not smooth, don't push it by extreme force. (Please, be moderate) There are three doorsills. In this case, push the bottom of the wafer boat. This will be helpful to crossover the doorsills. (Please, be patient)
5. After loading the wafer boat, wait at least 10 minutes for temperature stabilization (1100C). During the boat loading, the furnace temperature drops a lot. If you start the oxidation process immediately after loading the boat, the oxide thickness will be thinner than you expected.