



SAFETY INSTRUCTIONS ***for*** **ALUMINA CRUCIBLES**

About ALUMINA PRODUCTS:

1. Alumina products are fragile. Please handle them carefully and avoid collision during unpacking, transportation, handling and cleaning.
2. Check whether any micro-cracks exist before using alumina products. Products with micro-cracks should not be used.

How to Use ALUMINA PRODUCTS:

3. Alumina products should be completely dry before usage. If they get wet, let the crucible or tube dry naturally before using them. If drying crucibles by placing in a dryer or oven, make sure that the drying process is carried out slowly.
4. Do not load too many materials in alumina crucibles, which can increase the possibility of uneven heating.
5. Alumina crucibles are sensitive to thermal shock. Try to warm up the furnace chamber slowly. A heating rate of 150°C/hour is recommended for the first 1-1.5 hours so that the crucibles can be evenly heated to reduce the impact of thermal shock. It usually takes about 3 hours to increase to high temperature.
6. Lower the temperature as gradually as possible. The cooling down rate is often half of the heating rate. If possible, arrange for consecutive heating of furnace to maintain a hot crucible. If taking the crucibles out of furnace into room temperature to pour the melted material, try to control the process as short as possible.

What to avoid:

7. Avoid contact of heated alumina products with a cold surface. Use insulation materials as support of alumina crucibles.
8. Avoid uneven heating.

HIGH QUALITY ALUMINA-WARE BY:

ACUTEK