

# ART CLAY SILVER

## 650 Slow Dry

Thank you for purchasing ART CLAY SILVER 650 Slow Dry Type. As this product has different characteristics from original 650 clay type, please read the instructions and directions carefully before use.

### WARNING

- If the clay is not dried enough it may cause bubbling during firing.
- During the firing process, oxygen can be consumed or smoke and gas emissions may result. Always be sure to well ventilate the workroom.
- Do not place the oven-hot fired clay on, or near by, any inflammable objects. It could cause a fire.

### CAUTION

- Take care not to get burned by the heated clay when drying, firing, and after firing.
- Keep this product out of the reach of children.
- If you get any of this product in your eyes or mouth, flush immediately with plenty of water and call your physician.

### [CHARACTERISTICS]

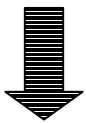
◆ART CLAY SILVER 650 Slow Dry consists of pure silver particles, binding agent and water. The binding agent is produced from harmless pulp fiber. ◆The clay turns into pure silver (99.9%) after firing. ◆During firing, the pure silver particles solidify. The binding agent consists of carbon, hydrogen and oxygen, which when fired together results in the release of harmless carbon dioxide and steam. ◆This product is low temperature - firing clay that can be fired from 650°C/1200° F. The special formula of this product allows for its combination with glass, porcelain and ceramic materials, and is also suitable for firing with sterling silver findings or wire (SV925 and higher quality recommended). \*Do not fire a soldered piece with 650 as the soldering temperature is lower than the firing temperature. ◆This Slow Dry Type contains a moisturizing binder to keep the clay from drying while working. ◆The moisture formula allows for braiding, weaving, and generally gives the artist up to 4 times more working time. Working time is often affected by the user's environment. Therefore, this formulation is useful for those who live in dry areas.

### [INSTRUCTIONS]

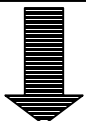
◆This product is water-based. If the clay becomes stiff during shaping, add a few drops of water and knead it well. You can prevent the clay from sticking to your hands by rubbing them with a few drops of olive oil first. ◆Do not use rubber bands to wrap the clay in plastic wrap (They may discolor the clay). ◆ Some kilns show a different temperature from the actual one. ◆Take out only the necessary amount of clay. Place the rest of the clay in the original 650 clay bag or a zip-loc bag and keep it in a sealed container to prevent it from drying up. ◆You may combine any unused portion of 650 Slow Dry clay with the original silver clay series ,but the firing condition should be same as the original clay series. You may also combine 650 Slow Dry with 650 series (the firing condition is the same for both). ◆It may cause cracking during firing if the clay is not sufficiently dry.◆Do not bend the fired piece with unreasonable pressure. ◆Keep the clay indoors and out of direct sunlight. ◆Do NOT keep in a refrigerator. ◆Use soon after unsealing.

### [DIRECTIONS]

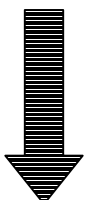
#### Preparation



#### Molding & Drying



#### Firing



- Take out necessary amount of clay. When you use newly opened 650 Slow Dry or if the unused portion seems stiff, knead it well in the palm of your hand to soften.
- Because the piece will shrink 8 to 9% during firing, make the mold larger than the finished size.
- It is necessary to dry the clay completely, so dry it in the following ways:

#### <Condition for Drying> \*for less than 3mm thick piece

- Hair dryer: At least 45 minutes with a 1200w hair dryer. Place the dryer within 10cm/4 inches from the piece.
- Food Dehydrator: At least 30 minutes at 100°C~130°C/210~265° F
- Oven or Cooking plate: At least 20 minutes at 150°C~180°C/300-330° F
- Kiln: At least 20 minutes at 150°C/300° F
- Natural dry: At least 24 hours at room temperature.

\*Do not apply heat over 250°C/480°F, otherwise, the binder will burn away before firing and the shape of the piece can change.

#### How to Tell When the Piece is Dry Enough

Take the still-warm piece and place it on some stainless steel, glass or plastic sheet. After 10~20 seconds pick up the piece. If there is no cloud of water vapor, it is dry. (It is easy to check for condensation on black stainless steel, glass or plastic.) If the piece is cold, warm first by hot air dryer for five minutes, then conduct the test as explained above.

#### <Kiln Firing>

To fire, place the piece in a cold or warm kiln (below 300°C/570° F). It is safest to start with a cold kiln. Take at least 15 minutes to reach firing temperature. You may use any of the four firing temperatures and hold times listed below. If you are combining with other materials (i.e. man-made stone, glass), please check the appropriate firing temperature and hold time. If you are firing more than two pieces, make sure the pieces are not touching each other.

- Firing Temperature 650°C/1200° F - Holding time at least 30 minutes
- Firing Temperature 700°C/1290° F - Holding time at least 15 minutes
- Firing Temperature 750°C/1380° F - Holding time at least 10 minutes

■ Firing Temperature 800°C/1472° F and above - Holding time at least 5 minutes.

\*650 series are made for low firing conditions. It is recommended that you fire 650 series under 800°C/1472° F

\*You may fire 650 Slow Dry type using a gas torch or on a cooking gas stove. Some restrictions and conditions apply. Please ask for the details from your supplier:

**Completion**

- The surface of the fired piece will be white and matte due to crystallization of silver; during firing but a luster and strength can be obtained by polishing. (i.e. Stainless brush, Burnisher, Sandpaper, File, etc.)
- The completed piece is pure silver(99.9%).

□Manufacturer

*Aida Chemical Industries Co., Ltd*

<http://www.artclay.co.jp>

*Art Clay is a registered trade mark in 17 countries in the world.*

*Several Patents and Patents Pending reserved for Art Clay series products in 13 in countries around the world.*