

# ART CLAY SILVER

## Firing Art Clay Silver with Microwave Oven

There are two types of Microwave Oven Kiln, "Art Box Mini" and "Art Box No. 1". The firing methods between two products are similar, but heating and firing times are different. Please follow appropriate instruction for each product.

### Art Box Mini (two fiber sheets included.)

Inside scale:

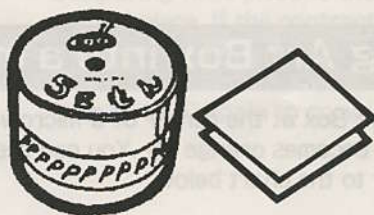
70mm(diameter) x 40mm(height)

Outside scale:

120mm(diameter) x 80mm(height)

Firing up to:

40mm(diameter) x 20mm(height)



### Art Box No. 1

Inside scale:

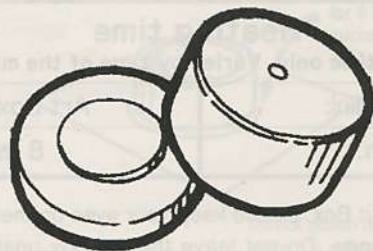
110mm(diameter) x 45mm(height)

Outside scale:

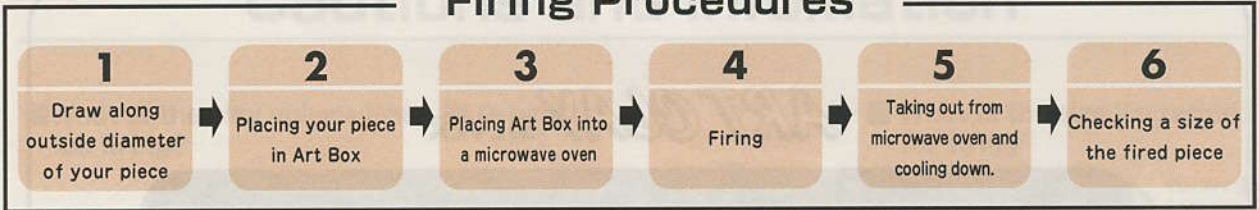
170mm(diameter) x 87mm(height)

Firing up to:

70mm(diameter) x 20mm(height)

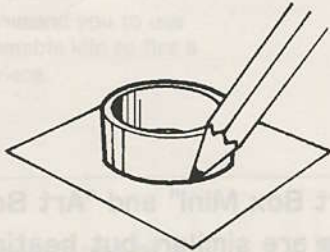


# Firing Procedures



## 1 Draw along outside diameter of your piece.

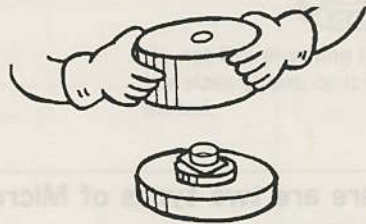
To check if your piece has been successfully fired, draw along outside diameter of your unfired piece on a sheet of paper.



Art Clay Silver contracts from 8 to 10% when fired. It is important to do this step for checking if your piece is successfully fired.

## 2 Placing your piece in Art Box.

Place a piece of fiber sheet on the bottom of the Art Box and place a piece on it. Then, cover with the top lid.



Please pre-fire Art Box before its first use for 3 to 4 minutes. After pre-firing, use the Art Box when it is cooled down to normal temperature.



Art Box becomes very hot after heating. Please use heat-resistant gloves to prevent burn.

## 3 Placing Art Box into a microwave oven.

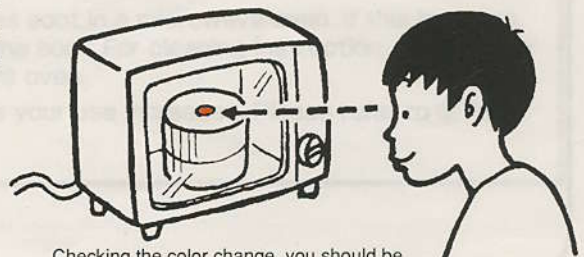
Place the Art Box at the center of a microwave oven and heat for appropriate time until the inside the Art Box becomes orange ●. You can see the inside through the hole in the lid. For heating time, please refer to the chart below.

Heating time (Estimated time only. Varies by type of the microwave)	
Art Box Mini:	Art Box No. 1:
3 min.	8 min.

During heating the Art Box, please keep your eyes on the hole to check the color change. Do not leave the Art Box unattended during the firing. If the hole on the top lid does not change to an orange color, add extra one minute by setting the microwave timer. You may repeatedly add extra one minute until the hole on the lid becomes orange.



Heating time would take longer if the wattage of the microwave is less than 500 watts and when quality of the Art Box becomes less due to a repeated use.


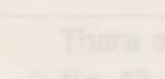


Checking the color change, you should be looking at the hole from this angle. Do not get too close to the microwave oven.

## 4 Firing

Confirming the orange color in the hole, you can reset the microwave timer to firing time according to the chart below.

### Placing Art Box into a microwave oven.

<b>Art Box Mini</b> 	up to 3 gram	1 min. to 1.5 min.
	3 to 30 gram	1.5 min. to 2 min.
	10 to 30 gram	1.5 min. to 2.5 min.
	rope shape or thin piece	1 min. to 1.5 min.
<b>Art Box No. 1</b> 	up to 3 gram	2 min. to 3 min.
	3 to 30 gram	3 min. to 4 min.
	rope shape or thin piece	2 min. to 3 min.



Firing for more than the chart shows, you may risk the piece to be melted. You may find out that the melting time may be varies by type of microwave. Pre-fire a test piece would be strongly recommended.

When you see the orange color, set the firing time immediately by setting the timer of the microwave to appropriate time and re-start heating again.



## 5 Taking out from microwave oven and cooling down.

After firing (when the timer turns off), take out the Art Box from the microwave oven at once, using heat-resistant gloves to prevent burn. Place the Art Box on a heat-resistant material, such as heat-resistant brick or fiber brick to cool down to a room temperature. It usually takes from 20 to 30 min. to cool down.

Wear heat-resistant gloves to take out the Art Box from the microwave oven, then place it on heat-resistant brick.



Heat-resistant brick or fiber brick (Sold by Art Clay World USA)

Open the Art Box after cooling down to a room temperature.



Do not open the Art Box while it is still hot!

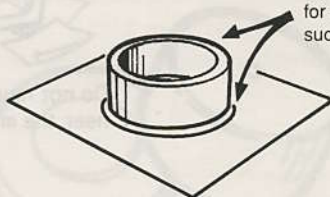


Open the Art Box after cooling down to a room temperature and use tweezers to hold the fired piece, then proceed to ⑥.

## 6 Checking a size of the fired piece

Comparing fired piece to the drawing of the unfired piece. If the contraction of the fired piece is less than 8 to 10%, it is not successfully fired. You need to follow steps from ② to ⑤ again to complete firing.

If you see the contraction for 8 to 10%, it is successfully fired.



Do not polish fired piece while it is still hot.



You will notice that the surface of the fired piece is white. This is due to a crystallization of the silver powder.

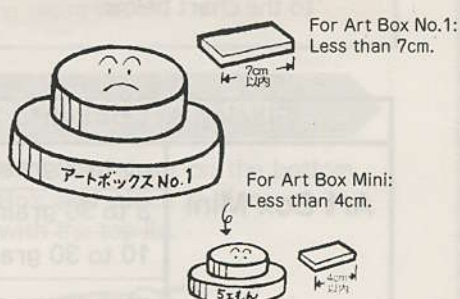
# Cautions and Information

## ■ What is the clay volume limit for firing? ■ Drying



Your piece must be completely dried before firing or it will be deformed

## ■ What is the size limitation for firing

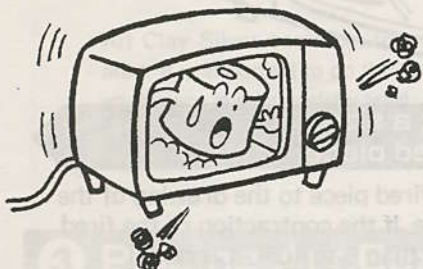


Do not fire anything larger than the sizes above, or it will be melted.

## ■ Making a hollow piece

We recommend you to use programmable kiln to fire a hollow piece.

## ■ Continuous use of a microwave oven.



Please have an interval between continuous use of a microwave oven, at least 20 to 30 min.

## ■ Pre-firing test

To avoid melting from over firing, we recommend pre-fire a test piece. Take out 1 gram of clay and flatten out and follow steps from ① to ⑥. If the contraction is 8 to 10%, you know how to heat the kiln and fire your piece.

## ■ Surrounding of microwave oven



Do not have anything burnable near the microwave kiln.

## ■ Sparking during firing



If you notice a spark or sparkling sound, stop the microwave oven immediately.

## ■ Taking Art Box out from microwave oven.

Please use heat-resistant gloves when you take out the Art Box from the microwave oven and cool it down on a heat-resistant material. Though outside of the Art Box is cool, inside of it may still be very hot. Remove anything burnable around the Art Box. Do not open the Art Box while outside of the Art Box is still hot. It may cause durability of the kiln to be shorter than proper usage.



Caution

- Using microwave kiln, it sometimes causes soot in a microwave oven. If this happens, unplug the microwave oven and wipe off the soot. For cleaning instruction, please refer to the instruction manual of the microwave oven.
- Art Box will lose its heating efficiency as your use increases. Please refer to ③ for heating time.