

INSTRUCTIONS FOR GOLDIE METAL CLAY



PREPARATION

- Pour the clay powder into a bowl.
- Add about a dozen drops of water and mix until you get a clay of a plasticine type consistency. Keep adding water if necessary.
- Roll the lump clay out thinly and fold over. Keep doing this until you start to see consistency of the clay coming together.
- The clay should all look the same.
- Leave the clay wrapped up in cling film for 30 minutes.

WORKING WITH THE CLAY

- Working with Goldie Clay is very easy: you can roll out, cut, texturize the clay or put into a mold like all other clays.
- To join elements in Goldie Clay™ clay, take a small portion of the clay and add more water. Mix it well until you get a paste. Small elements can also be joined with the water only method.
- Remember to always clean your tools well between using different types of metal clay to avoid cross contamination.

DRY STAGE

- Pieces can be dried naturally or by using heat like a hotplate or in a dehydrator. Dry at 90°C or lower. Higher temperatures may cause cracking, and the creation of steam bubbles.
- We do not recommend fast drying for bigger pieces as they can deform.
- All filing and polishing work should be done before firing because it's much easier now.
- Ensure the clay is completely dry before firing. Any moisture will boil and ruin the piece.

FIRING

Goldie Clay must be fired in two steps in an electric kiln with temperature control.

Step 1

- Lay the pieces in a stainless steel firing container on a layer of activated coconut shell carbon with a minimum depth 1cm under the pieces.
- Make sure the pieces are at least 1cm apart.
- Place the open container into a cold kiln and fire at full ramp according to the table.

When firing is completed, carefully remove the container from the kiln and place it on a heatproof surface.

Step 2

- Fill the container with a layer of activated coconut shell carbon with a minimum depth 1cm over the pieces, and place back into the kiln. Full ramp according to the table.
- Fired pieces can be removed from the kiln hot or cold. We recommend letting the pieces cool down in the kiln.

Please note: the table is for pieces up to 100g. Larger pieces must be fired longer.

For Step 1 this means:

< 100g	100g - 200g	200g - 300g	> 300g
30 Min.	45 Min.	60 Min.	90 Min.

The same applies for Step 2. Firing may take several hours depending on the weight or thickness of your pieces.

Please be sure that your kiln works with the correct temperature. The temperature shown at the kiln can be different from the real temperature inside the chamber. Clays containing tin are very hard to fire if your kiln does not have the correct temperature.

Clay	Composition	Step 1	Step 2	Shrinkage	Remarks
Soft-Mid-Hard Bronze	90% Copper, 10% Tin	350 °C, 30 Min.	820 °C, 40 Min.*	8-11%	
De la Rosa Bronze	94% Copper, 6% Tin	350 °C, 30 Min.	935 °C, 80 Min.	14-19%	
Roman Bronze	89% Copper, 11% Tin	350 °C, 30 Min.	845 °C, 90 Min.	10-12%	
Snow Bronze	79% Copper, 21% Tin	350°C, 30 Min.	730-760°C, 110 Min.	16-30%	
Copper	99,9% Copper	580 °C, 30 Min.	960 °C, 110 Min.	14-20%	
Cherry Iron		400 °C, 30 Min.	960 °C, 120 Min.	9-17%	
Yellow Iron		580 °C, 30 Min.	870°C, 120 Min.	5-14%	min. 5 cm activated carbon on top for step 2
Red Iron		400 °C, 30 Min.	960 °C, 120 Min.	12-18%	
White Iron		400°C, 30 Min.	870°C, 120 Min.	5-11%	
Lemon Brass	90 % Brass 10% Bronze	580 °C, 30 Min.	870 °C, 120 Min.	9-15%	
Sculptors' Copper	99,9% Copper	580°C, 30 Min.	960°C, 110 Min.	15-23%	
Sculptors' Bronze	90% Copper, 10% Tin	670°C, 30 Min.	830°C, 60 Min.	9-14%	

SAFETY PRECAUTIONS



Harmful if inhaled

When working with the powder, wear protective gloves, eye/face protection.

Always use the appropriate safety equipment when working with a hot kiln and fire in a well ventilated area. Goldie Clay™ is non-toxic and does not contain any harmful chemicals. There have been no reports of any allergic reaction to Goldie Clay™, however people with allergies should be aware of the possibility of a reaction and use with care.

You can read the original instructions on the Goldie Clay™ website.

For any questions or comments, please contact us

- by email to info@metalclay-shop.com
- by Whatsapp at +352 661 142009

www.metalclay-shop.com

COPYRIGHT © 2023 metalclay-shop.com. All rights reserved. Any reproduction or distribution without our written permission is prohibited.