

Morin Fine Silver Clay Instruction Manual

Introduction

What is Fine Silver Clay?

It resembles clay in both appearance and texture, yet transforms into fine silver during firing.

Morin Fine Silver Clay is an unparalleled fine silver clay that utilises precious silver crystals without waste, enabling free expression.

Features of Morin Pure Silver Clay

- Delicate patterns transfer beautifully.
- After drying, simply soak in water and knead to restore it to its original state.
- Cracks or scratches after drying can be smoothed using damp cotton, waterproof paper, or sponge polish. Alternatively, dampen your fingertips with water and gently rub the affected area to repair it.
- With only Morin Fine Silver Clay, you can create preferred type of fine silver clay, such as paste-type or syringe-type.
- The firing time is not too long, achieving high hardness and a beautiful mirror-like shine after firing.

1. Sculpting

After removing from the packaging, knead the clay by hands to begin creating your artwork.

If it dries out, add a small amount of water and knead again.

When making a ring (use a separately sold ring firing mandrel or wooden mandrel).

Model it at a size 5 to 8 sizes larger than your own finger size.

(Example: To make a size 10 ring, model it at a ring size of 15 to 18.)

The shrinkage rate varies depending on the amount of silver clay, size, shape, firing temperature, and time, but after firing, the product will shrink by approximately 8–16%.

Using a ring firing core (sold separately by Nitto Kagaku Co., Ltd.) makes deformation less likely and allows you to create your preferred shape and size.

Synthetic stones specifically for fine silver clay can be fired together.

2. Drying

For hair dryer drying:

Dry with warm air for approximately 30 minutes. (Drying time varies depending on the thickness and size of the piece.)

The piece may retain some elasticity even after drying.

For thicker items or rings/pieces weighing 15g or more, dry with warm air for over an hour.

For hot plate drying:

Keep warm for approximately 30 minutes. (Drying time varies depending on the thickness and size of the piece.)

Do not set the temperature above 130° C (266° F).

※ Depending on the hotplate model, the temperature may exceed 150° C(302° F) even when set to 130° C(266° F).

Warnings for drying process:

- On humid days or when the room temperature is low, please allow a longer drying time.
- When drying the piece, please ensure it does not exceed 130° C (266° F). This could cause it to burst, crack, or inflate like bubble.
- Please note that dried items may break if dropped.

☆How to Revive Dried and Hardened Morin Fine Silver Clay☆

- ① Add water to the dried body and wrap it in cling film.
- ② Place it in a zip-lock bag, remove the air, and seal the zip.
- ※ Be careful not to add too much water, as it will turn into a paste.

3. Polishing

Polish and smooth using a sponge abrasive (file).

Wear a paper mask and dust cover during polishing. Fine powder may become airborne.

4. Firing

Ensure the piece is thoroughly dry before firing.

Residual moisture in the work may cause it to puff up like mochi or crack during firing.

When firing in an electric furnace

Place the dried body into the electric furnace at room temperature and raise the temperature to 900° C(1652° F).

This heating process takes approximately 20 minutes (for Nitto Kagaku Corporation's small electric furnace).

Once the temperature reaches 900° C(1652° F), fire for 5 to 10 minutes.

〈Firing〉 Reference: Approximate firing times for sculpted pieces weighing up to 5g.

Place in the electric kiln at room temperature.

600° C (1112° F)	30 minutes
800° C(1472° F)	20 minutes
850° C(1562° F)	10 to 20 minutes
900° C(1652° F)	5 to 10 minutes

Simultaneous firing with SV925 and SV950: 600° C(1112° F) for 30 minutes

※SV925・SV950: Commercially available silver products such as silver chains.

Do not fire at temperatures higher than 900° C. (900° C(1652° F) is acceptable)

Use the simple kiln equipment during firing.

When firing in a Silver Pot or Silver Mini Pot (manufactured by Nitto Kagaku Co., Ltd.): Firing is complete once the solid fuel has burned out.

When firing in a Mini Pan (manufactured by Nitto Kagaku Co., Ltd.): Firing is complete after 5 to 7 minutes on medium to high heat using a portable gas stove.

Firing is also possible using a powerful gas burner.

5. Polishing after firing

After firing, it emerges pure white.

A stainless steel brush is used to reveal the silver skin, and it is polished to completion with a polishing spatula.

☆Storage Method for Leftover Morin Fine Silver Clay☆

Store in an airtight bag (or container) to prevent exposure to air.

Unopened, it can typically be stored for 2-3 months, but please use it as soon as possible.

(If it hardens, it can be rehydrated with water to restore its clay-like consistency.)

Avoid direct sunlight, hot indoor environments, or leaving it in a car.

Precautions

● Depending on individual constitution, itching or skin irritation may occur. Should you notice any abnormalities on your skin or body, discontinue use immediately and consult a specialist.

● Don't put into the eyes or mouth.

● After use, wash hands thoroughly with soap and do the gargling.

● When sanding after shaping (both pre-firing dried pieces and post-firing), wear a mask and dust cover.

Fine powder may become airborne.

● During firing, smoke and gases may be emitted due to binder components. Ensure adequate ventilation in the room.

● After drying using a hotplate or hairdryer, and after firing, allow the piece to cool completely within the kiln before removal. Take care to avoid burns or injury.

● Keep away from children.

Adhere strictly to the above handling instructions and never use the product for any purpose other than its intended use.

During the manufacturing process, the clay may develop a slight yellowing.

Should you notice yellowing upon opening the package, this does not affect the quality of Morin Pure Silver Clay in any way.

After firing, the yellowing disappears and has no impact on your finished piece.

Planning and Manufacturing

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