



**Hadar Jacobson**

Art in Metal Clay

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**Instruction Manual for Hadar's Clay™  
Friendly Brilliant Bronze™  
One-fire Clay**

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Friendly Brilliant Bronze is a mid-fire clay. It can be used on its own or combined with Friendly Copper and Pearl Grey Steel XT (included in the One-fire Mokume-Gane Sampler) in one piece to create mokume-gane patterns.

Friendly Brilliant Bronze is suitable both for beginners and for experienced users of base metal clay.

Hadar's Clay Friendly Brilliant Bronze is the same as the other varieties of Hadar's Clay in terms of shelf life, storage, toxicity, mixing, consistency, etc. (see the [Instruction Manual for Hadar's Clay](#)). It does not contain allergenic ingredients such as nickel.

### **Color**

Friendly Brilliant Bronze is the same color as Quick-fire Brilliant Bronze, the closest to gold.

### **Shrinkage**

Friendly Bronze shrinks 15% by volume. Rings shrink 1.5 sizes.

### **Compatibility**

Compatible with with Friendly Copper and Pearl Grey Steel XT. Not compatible with Quick-fire clays.

### **Firing Schedule**

For best results use coconut shell carbon and a round stainless steel pet dish.

Friendly Brilliant Bronze, on its own and in combination with Friendly Copper and Pearl Grey Steel XT, is fired in one phase at mid-fire schedule.



## One-Phase Schedule

### Brick kiln

Ramp at  
1800°F/1000°C per hour to 1500°F/815°C  
Hold for 2:00 hours.

### Muffle kiln

Ramp at 1400°F/778°C per hour to 1550°F/843°C  
Hold for 2:00 hours.

## Post-firing Treatment

Friendly Brilliant Bronze on its own does not require any treatment. It tarnishes less than copper, silver, and other bronzes.

Mokume-gane pieces should be sanded smooth and treated with Baldwin's Patina to highlight the contrast between the colors.

You can find instructions for mokume-gane designs in my books: *Patterns of Color in Metal Clay* and *Metal Clay Practice*.

For detailed instructions for Hadar's Clay see the general [Instruction Manual for Hadar's Clay](#), available on the right-hand pane of [Hadar's Blog](#).

