

Oval Koi Fish Bowl

Materials:

- [LF146 Koi Fish](#)
- [GM236 Small Oval Dam](#)
- [GM234 Small Oval Shelf Ring](#)
- COE96 Glass (See Right for Frits):
 - Sheets:
 - Ming Green
 - Citron
 - Sea Green
- Suitable Glass Separator/ZYP
- Frit Placement Tools
- Glass Cutting Tools

- F1 Powder Frits:
 - Black
 - Flame Opal
 - Orange Opal
 - Marigold
- F2 Fine Frits:
 - Amber Transparent
 - White Opal
- F3 Medium Frit:
 - Clear
- F2 Fine OR F3 Medium Frits:
 - Citron
 - Ming Green
 - Amber Transparent



Make sure to prepare your molds thoroughly with glass separator before beginning. And always wear a mask when using spray-on separator and/or powder frits.

Step 1: Make the Koi Fish (LF146)



Place F1 Black into the fins, lips, and eyes of each koi. Add a bit of F1 Flame Opal to the tops of the heads and a few other places on the body to begin the koi patterns.



Use various hues of Yellow and Orange F1 Powder frits to create the rest of the body patterns. Here, F1 Orange Opal and F1 Marigold were used to create these body patterns.



Sprinkle a bit of F2 Amber here and there to finish off the patterns.



Back everything with F2 White Opal until each fish is filled between 1/4" to 3/8" deep with frit. Tack Fire using the suggested schedule in **Table 1** or your own preferred schedule.



Allow the kiln to cool naturally. Since these castings will be included inside a full glass piece they are quite thin and will still be somewhat textural at this point. If there is any separator stuck to them, gently clean them with running water and a stiff-bristled brush to remove it.

Table 1: Tack Fire*

Segment	Rate	Temp (°F)	Hold
1	300	1150	20
2	350	1400	05
3	9999	950**	60

**if using COE90, adjust to 900°F

[*Click here for our Important Firing Notes!](#)

Step 2: Make the Bowl (GM236)



Use a mosaic nipper or other glass cutting tool to fill the bottom of the treated oval dam with pieces of Ming Green, Citron, Sea Green, or other transparent green shades.



Fill the gaps and crevices between the nipped pieces with F2 Fine and/or F3 Medium Citron, Ming Green, and Amber frit.



Arrange two of the koi fish on top of this first layer of glass.



Nip smaller pieces of Ming Green, Citron, Sea Green, or other shades of transparent green to fill the space around the koi.



Back everything with F3 Clear. If using fill weights, fill until the total frit weight is 280 grams. Make sure there is a thin layer of Clear over each of the frit castings to assure a smooth final product.

Segment	Rate	Temp (°F)	Hold
1	300	1150	60
2	50	1310	30
3	350	1465	10
4	9999	950**	90
5	100	700	05

**if using COE90, adjust to 900°F

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Place the filled dam on 1" kiln posts on a level kiln shelf and fire to a Full Fuse using the suggested schedule in **Table 2** above or your own preferred Full Fuse with a bubble squeeze.

Step 3: Create the Dish (GM234)



Once the glass has cooled, remove it from the dam.



Place the Shelf Ring on a piece of kiln shelf paper on a level kiln shelf. Center the fused glass on the Shelf Ring and fire using the suggested Drop schedule in **Table 3** or your own preferred schedule.

Segment	Rate	Temp (°F)	Hold
1	275	1150	20
2	350	1250***	05
3	9999	950**	90
4	100	700	05

**If using COE90, adjust to 900°F

***To create a more severely angled piece from this firing process, increase this temperature to 1300°.

*Before firing, [check our Important Firing Notes by clicking here](#) to get to know your kiln and see if you need to adjust our schedules!



Slumped to 1300°F



Slumped to 1250°F

