



# Glass Tile Casting Kit

Item No. 401175 This kit contains enough materials to complete at least four tiles.



The AMACO® Glass Tile Casting Kit provides a great introduction to glass casting without the complexity of making a mold. Create square and circular 4" glass decorative tiles in an endless variety of designs using the reusable molds. Images and patterns are produced by using an assortment of glass colors and shapes in the bottom of the molds, then piling Clear Mosaic glass chunks on top before firing. Square and Circular molds must have Kiln Wash applied and be completely dry before using. No glass cutting tools are needed. Kit contains enough glass for at least four tiles depending on thickness and amount of color chunks used. All glass is COE 90.

## Components:

Quan.	Item #	Description
1	32240F	4" Circular Glass Tile Casting Mold
1	32241N	4" x 4" Square Glass Tile Casting Mold
1	40003C	3 oz. jar Glass Mosaic Chunks, Marigold Opal
1	40004D	3 oz. jar Glass Mosaic Chunks, Cobalt Blue
1	40007G	3 oz. jar Glass Mosaic Chunks, Grenadine Red
1	40099A	3 oz. jar Glass Frit, Black
1	40100B	3 oz. jar Glass Frit, Sky Blue
1	40103F	3 oz. jar Glass Frit, Emerald Green
1	40085E	5 oz. tube Glass Noodles/Stringers, assorted colors
1	40106H	1 lb. 8 oz. Clear Mosaic Chunks
1	40107G	Abrasive Stone, Fine
1	52776K	Kiln Shelf Wash, 1 lb.
1	11593P	Lesson Plan #22, "Creative Glass Casting"
1	11571G	Glass Tile Casting Kit Instructions/Technique Sheet



## Designing and filling the mold:

Before using the molds, they should both be brushed with a coat of AMACO® Kiln Shelf Wash and allowed to dry completely. See Kiln Shelf Wash mixing instructions on jar. For best results, bisque-fire the mold after applying the wash and allow it to cool. Students can then arrange their glass designs in the mold in the same manner as creating a collage. The colored frits, chunks,

noodles and stringers may be laid out with the help of some diluted white glue to hold them into place. Once the design is in place and "tacked" with the glue, the clear glass chunks may be piled on top in a mound with a peak that is approximately one inch higher than the edges of the mold. Less glass creates thinner tiles. Care must be taken not to overfill and flood the mold.

**Firing:**

Molds must be arranged in the kiln so that they are level and the glass will not run out when molten. Programmable glass kilns are recommended so that the temperature increase/decrease and the annealing phase may be accurately controlled.

Follow the firing cycle indicated below, bearing in mind that the times may vary and the cooling should take longer than the heating cycle.

**Casting Project Schedule:**

Full Fuse For Casting

Small: For 6" X 6" X 1/2" or smaller

Step	1	2	3	4
Rate	400	600	9999	150
Temp	1200	1480	950	750
Hold	30 min.	15 min.	30 min.	0
Time	3 hr. 18 min.	42 min.	1 hr. 30 min.	1 hr. 18 min.



*Note: All times assume a one hour time period for the rapid cool portion of the cycle. Approximate total time of cycle is 6 hours, 54 minutes.*

*Note: All firing and cooling times are approximate. Actual times may vary.*

**Finishing:**

Once the firing is complete and the pieces have cooled down to room temperature, they may be removed from the mold by flipping the mold and lightly tapping it. The glass tiles may have some sharp edges and burrs so care must be taken when handling. Any sharp edges may be ground using the abrasive stone from the kit under running water. Pieces should then be washed and dried.

**Note:** Molds may be reused without reapplying the Kiln Shelf Wash as long as the entire interior of the mold is still completely covered with a coating of wash. If sections of the Kiln Shelf Wash have flaked off from the mold, simply remove any loose wash, lightly sand with the abrasive stone, and reapply another coat of Kiln Shelf Wash.

**AMACO® Warm Glass Kilns equipped with Glass Select Fire™ Controller**

**GSF-670 (Cone 07)**

Firing Chamber:

41 1/8" w x 24 1/2" d x 13 1/2" h

Extra-tall firing chamber is deeper than other top firing glass kilns allowing for drop ring and slumping projects.

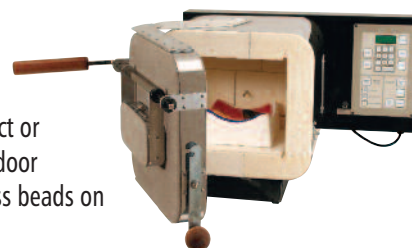


**GSF-045 (Cone 07)**

Firing Chamber:

10" w x 9" d x 9" h

Ideal for one small project or jewelry. Insulated bead door allows placement of glass beads on mandrel inside the kiln for annealing.



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