

Gold
has never
been so
affordable!



Argenco Y+

Full Cast Crown and Bridge Alloy

| ARGENCO Y+ COMPOSITION | |
|------------------------|----|
| 2.0% | Au |
| 34.9% | Pd |
| 30.0% | Ag |
| 30.0% | In |



THE MOST ECONOMICAL YELLOW C&B ALLOY

SAVE

- Type III NOBLE YELLOW Alloy
- Suitable for full cast crowns and short span bridges
- Easily polishes to a high luster

only from



Alloy Makers to the World

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ARGENCO® Y+ TYPE III

METAL CONTENT %

| Gold | Palladium | Silver | Indium | Zinc | Iridium |
|------|-----------|--------|--------|------|---------|
| 2 | 34.9 | 30 | 30 | 3 | X |

"X" denotes a content of less than one percent.

THERMAL PROPERTIES

| Melting Range | Casting Temperature | Density |
|---------------------------|---------------------|------------------------|
| 2057-2129°F (1125-1165°C) | 2210°F (1210°C) | 10.5 g/cm ³ |

MECHANICAL PROPERTIES

| Vickers Hardness (VHN) | Yield Strength N/mm ² (0.2% Offset) | Tensile Strength N/mm ² | Elongation % |
|------------------------|---|------------------------------------|--------------|
| 180 | 347 | 405 | 6 |

INSTRUCTIONS FOR USE

Modeling Maintain a minimum wax thickness of 0.3 to 0.4 mm.

Spruing (Single Crowns) Use direct sprues, 8-10 gauge, (3.3-2.6 mm diameter) and 1/2 in. (12 mm) long with adequate reservoirs. There should be no more than 1/4 in. (6 mm) of investment from the top of the pattern to the top of the investment.

Spruing (Multi-Units & Bridges) Use a 6 gauge (4.1 mm diameter) runner bar, connecting the units to the bar with 10 gauge (2.6 mm diameter) sprues 1/8 in. (3 mm) long and joining the bar to the sprue base with 8 gauge (3.3 mm diameter) and 1/2 in. (12 mm) long sprues coming from a domed central entry point. There should be no more than 1/4 in. (6 mm) of investment from the top of the pattern to the top of the investment.

Alloy Quantity 10.5 g/cm³* (Wax Weight) = Required Alloy Quantity.

Investing Use debubbler and blow off any excess before investing. Phosphate Bonded investment required. Follow the manufacturer's instructions.

Burnout After adequate set-up time, place the ring(s) in a room temperature oven and raise the temperature to 650-700°C / 1200-1290°F, hold for 1 hour plus 10 minutes for each additional ring. If you are using a rapid fire investment, follow the manufacturer's instructions.

Reusing Cast Alloy Use only clean buttons and at least 35 percent new alloy.

Crucible Type Graphite / Ceramic

Torch Casting Crown & Bridge Alloys can be cast with compressed air and natural gas using a borax flux for optimum results.

Induction or Electrical Casting Use a graphite lined crucible. Every casting machine is different. The casting temperature may require adjustment based upon the alloy and the amount of metal being cast.

Cooling Allow the casting ring to cool to room temperature.

Divesting and Cleaning Divest and sandblast with 50 micron aluminum oxide, be careful of margins.

Soldering Check that the solder joints are sufficiently large (6-9 mm²). Soldering gap approximately 0.05-0.2 mm. The soldering surfaces should be parallel and pre-polished. Allow the soldered case to cool slowly after soldering.

Recommended Solder LO, R

Polishing Polish with any conventional polishing brushes and felt wheels using Tripoli, rouge and tin oxide. Soft, medium bristles, chamois, or rag wheels are acceptable.