



## **GH CASTING GOLD ALLOY TECHNIQUE OUTLINE**

**GH** is a Type III/IV, hard casting gold alloy for crowns and moderate to high stress bridges.

**Spruing:** Straight or reservoir sprues may be used. Sprue sizes of 8-10 gauge are recommended. Sprues should be attached to the heaviest part of the pattern. If a reservoir sprue is used, the reservoir should be no more than 1/16 inch from the pattern.

**Investment and Burnout:** Use Aurivest investment or equivalent. The pattern should be covered by 1/4 inch of investment. Burnout at 1150° F for a minimum of 45 minutes or according to the investment manufacturer's recommended time.

**Casting:** If a spring loaded centrifugal casting machine is used, lock casting machine arm in the position after winding three full turns. If any previously melted alloy is used, at least 1/3 of the total should be new alloy. A gas oxygen torch can be used for most efficient results. Casting flux is not recommended. Precautions should be taken to avoid overheating alloy. The oxygen pressure regulator should be set as low as possible to still attain the inner cone of the flame at 1/2 inch in length (about 10 psi). Cast at a temperature where the metal appears to flow freely. The casting can either be benched cooled or quenched after the button no longer has any red color.

**Investing and Finishing:** Remove adhering investment with brush or sandblast with aluminum oxide and be careful in sandblasting around the margins. Standard polishing techniques used for casting gold alloys are applicable.

**Recommended Solder:** 585