

WH CASTING GOLD ALLOY TECHNIQUE OUTLINE

WH is a Type III, hard, casting gold alloy for moderate to high stress bridges.

Spruing: Straight or reservoir sprues may be used. The sprue cross section area should be no less than the heaviest cross section area of the pattern. 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 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. A gas oxygen torch can be used for most efficient results. Casting flux is not recommended. Precautions should be taken to avoid overheating the alloy. The oxygen pressure regulator should be set as low as possible to still (about 10 psi). Cast at a temperature where the metal appears to flow freely. The casting can be quenched after the button no longer has any red color.

Investing and Finishing: Remove adhering investment with brush or sandblast with aluminum oxide. Standard polishing techniques used for casting gold alloys are applicable.

Recommended Solder: 615