

TECH SPECS: **92.5% Sterling Silver/ 5% Platinum (patented)**

FINENESS: 92.5% Silver, 5% Platinum

DENSITY: 10.7 g/ccm- VS .10.4g/ccm for regular sterling

INVESTMENT: Regular sterling investment acceptable - premium investment preferred

MELT : 990°C (1814°F)

Please protect metal with inert gas during the melting process

CASTING RANGE: 1010°C – 1040°C (1850°F - 1904°F) **PASTY RANGE:** 907°C – 960°C
(1665°F – 1760°F)

FLASK RANGE: 528°C - 638°C (980°F -1180°F) Dependant on part(s), weight or type. In general, we believe this alloy should be **cast at flask temperature 100°F to 200°F higher** than you currently use for traditional sterling castings. It is important to hold flask at intended temperature or at least 1 hour prior to casting. We suggest test casting with 1 flask at the same temperature as you normally do for traditional sterling, a 2nd flask 100°F (38°C) higher and a 3rd 200°F (93°C) higher to establish the optimum temperatures for your oven and specific parts.

QUENCH: 15 to 20 minutes (quicker = softer castings, longer = harder)

HEAT TREAT: Place pieces on trees in 650°F (343°C) oven for 2 hour. Turn off oven and let the oven cool to room temperature (about one hour more)

PICKLE: Pickling with SPAREX (Granular Sodium Bisulfate) is recommended. After pickling the sprues and trees to be re-cast should be tumbled & thoroughly rinsed and cleaned prior to casting.

METAL MIX: At least 60% new to 40% old. It is important to thoroughly clean the old (used) metal prior to re-using. It is imperative to “regrain” the buttons & sprues if you plan to re-use them to eliminate the sulfur dioxide from previous melts.

FLUX: Not necessary with this metal. If desired, use 25% granular Boric Acid and 75% granular borax mixed on the button.

MACHINE NOTES: If casting with a frequency machine, always cast “on the upswing” of the metal heat cycle. Always retrieve flask well before casting temperature is reached, then cast when temperature reaches set point.