

## **TECH SPECS: # 59 White Brass**

**Alloy Name:** # 59 White Brass

**General Description:** German Nickel – Silver Alloy for white metal casting. This alloy is 50% more Tarnish Resistant than # 18-S “but not tarnish free”. It is softer and has a lower casting temperatures than traditional stainless steel alloys.

**Color:** White

**Liquidus:** 2030° F / 1110° C

**Casting:** Melting should be done in an inert atmosphere (Argon, Helium or Nitrogen).

Casting temperatures should be about 1210° C (2210° F).

**Flask Temp:** Dependent on parts but a starting point would be 1300° F (705° C) for 3 dwt rings with detail, and 1000-1100° F (537 – 590° C) for heavier rings, bracelets etc.

**Quench Time:** 10-15 minutes minimum

**Pickling:** Any typical investment remover should be used. Use proper safety gloves and goggles should be worn.

**Reusability:** 60% Fresh / 40% Recycle should be OK. Regraining is not necessary.

**Technical Questions:** Please free to call at any time if you have questions or comments.

**Antiquing:** Liver of sulfur not recommended  
use Black max Tellerium hydrochloric acid