

## Sterling Silver D

Purpose - Casting

Advantages - soft, good tarnish resistance, non heat treatable

### Physical & Mechanical Properties

Composition		Density (g/cc)	Hardness (HV)	
Ag	92.50%	10.18	As cast	69
Cu	3.50%			
Zn	4.00%			

### Melting & Casting Instructions

Temperatures			Process parameters	
Casting	955° - 985° C	1751° - 1805° F	Quench Time	15-20 minutes
Flask	540° - 650° C	1004° - 1202° F	Remelting	50% fresh mix

### General Instructions

- **Fluxing:** It may be necessary to flux these silver melts. We recommend Boric Acid. Do not use Carbon Containing Fluxes or Charcoal. Skim any surface oxides off the surface before stirring.
- **Investment removal:** *Flouric based* investment removers are the best for silicon oxide invisible coating. Use of aggressive acid causes corrosion and surface damage. *United's brite cast* works very effectively.
- To calculate the weight of the metal needed (in grams), multiply density (gm/cc) with weight of wax (grams). Add 10% of the total weight for button.

**Note:** There are proprietary metals in the formulation which are not included in the composition section.

Technical Assistance: Always available... Call: **1-800-999-3463 / 1-800-999-FINE**

E-mail: [techteam@unitedpmr.com](mailto:techteam@unitedpmr.com) Web-Site: [www.unitedpmr.com](http://www.unitedpmr.com)