

Color - Rich Reddish Yellow Purpose - Casting Karat - 9K - 14K

	Physical & Mechanical Properties											
	Composition		Color Coordinates				Density (g/cc)		As cast Hardness (HV)			
-	Cu Ag	58.75% 30.75%	Karat	L*	a*	b*	10K 290	11.61	10K 290	144		
ſ	Zn	10.50%	10K 290	90.31	2.3	17.49	14K 290	13.1	14K 290 15	10		
	Ni	0.00%	14K 290	88.92	2.73	20.23				128		

Physical & Mechanical Properties

## **Melting & Casting Instructions**

Temperatures										
	Karat	°C	°F							
Pre alloying	9К - 14К	1010° - 1040° C	1850° - 1910° F							
Casting	10K	890° - 910° C	1634° - 1670° F							
Casting	14K	885 - 905° C	1624° - 1660° F							
Flask	9K - 14K	510° - 650° C	950° - 1202° F							
Quench Time	15-20 Minutes	Remelting	35%-50% Fresh Mix							

## **General Instructions**

• Very little *boric acid* flux is recommended. Do not use carbon flux such as soda ash, saltpeter etc. No flux needed in bottom pour automatic casting unit.

• *Flouric based* investment removers are the best for silicon oxide invisible coating. Use of aggresive acid causes corrosion and surface damage. *United's brite cast* investment removers works 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.

• <u>Gypsum bonded</u> investment is recommended. Follow manufacurer's instruction for burnout cycle.

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 Web-Site / www.unitedpmr.com