

Color - Bright yellow Purpose - Casting Karat - 18K

Physical & Mech	nanical Propertie	es .
Color Coordinates	Density (g/cc)	As cast H

	Composition		Color Coordinates		Density (g/cc)		As cast Hardness (HV)			
ĺ	Cu	46.25%	Karat	۱*	a*	b*				
	Ag	50.00%	Ndidi	L' d'	a	D D	18K 725	15.39	18K 725	150
	Zn	3.75%	18K 725	87.96	4.3	24.14				
	Ni	0.00%	101 723	87.90	4.5	24.14				

Melting & Casting Instructions						
Temperatures						
	Karat	°C	°F			
Pre alloying	18K	1050° C - 1070° C	1922° F - 1958° F			
Casting	18K	960° C - 980° C	1760° F - 1796° F			
Flask	18K	510° C - 650° C	950° F - 1202° F			

Quench Time

15-20 Minutes

Remelting

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