

Color - Standard Yellow Purpose - Casting Karat - 9K - 14K

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Composition		Color Coordinates				Density (g/cc)		As cast Hardness (HV)					
Cu	76.5%	Karat	L*	a*	b*	10K 220	11.31	10K 220	133				
Ag	11.5%	Karac		u	~	101( 220	11.51	101(220	100				
Zn	12.0%	10K 220	87.79	3.3	18.79	14K 220	12.83	14K 220	135				
Ni	0.0%	14K 220	87.82	4.63	19.41				132				

## **Physical & Mechanical Properties**

Melting	&	Casting	Instructions
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Temperatures										
	Karat	°C	۴							
Pre alloying	9К - 14К	1010° - 1040° C	1850° - 1910° F							
Casting	10K	975° - 995° C	1787° - 1823° F							
Casting	14K	945° - 965° C	1733° - 1769° F							
Flask	9К - 14К	510° - 650° C	950° - 1202° F							
Quench Time	20-25 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