

Color - Dark Yellow Purpose - All Purpose Karat - 18K - 22K

	Physical & Mechanical Properties											
Cor	Composition		Color Coordinates				Density (g/cc)		As cast Hardness (HV)			
Cu Ag		60.0% 20.0%	Karat	L*	a*	b*	18K 384	14.79	18K 384	189		
Ga		10.0%	18K 384	86.04	4.68	20.17	22K 384	17.53	22K 384 11	112		
Ni	i	10.0%	22K 384	86.53	5.61	26.82				113		

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Melting & Casting Instructions

Temperatures											
	Karat	°C	°F								
Pre alloying	18К - 22К	1110° - 1130° C	2012° - 2066° F								
Casting	18K	920° - 940° C	1688° - 1724° F								
Casting	22K	1020° - 1040° C	1868° - 1904° F								
Flask	18K - 22K	510° - 650° C	950° - 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