

Color - Premium White Purpose - Casting Karat - 14K - 18K

Physical & Mechanical Properties											
Composition		Color Coordinates				Density (g/cc)		As cast Hardness (HV)			
Cu	40.00%	Karat	L*	.* a*	b*	14K T7	12.72	14K T7 2	200		
Ag	10.00%		L						200		
Zn	20.00%	14K T7	85.89	0.64	10.87	18K T7	14.73	18K T7	217		
Ni	30.00%	18K T7	88.01	1.63	13.47						

Melting & Casting Instructions

Temperatures										
	Karat	°C	°F							
Pre alloying	14K - 18K	1060° - 1070° C	1940° - 1958° F							
Casting	14K	980° - 1000° C	1796° - 1832° F							
Casting	18K	995° - 1015° C	1723° - 1859° F							
Flask	14K - 18K	540° - 675° C	1004° - 1247° F							
Quench Time	12-14 Minutes	Remelting	70% 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