

Color - Medium White **Purpose** - Casting Karat - 9K - 18K

Physical & Mechanical Properties											
Composition		Color Coordinates				Density (g/cc)		As cast Hardness (HV)			
Cu	55.70%	Karat	L*	a*	b*						
Ag	0.80%	10K 925	87.2	-0.01	9.34	10K 925	10.92	10K 925	144		
Zn	26.00%	14K 925	87.38	0.33	11.06	14K 925	12.47	14K 925	172		
Ni	17.50%	18K 925	87.39	1.23	14.4	18K 925	14.53	18K 925	185		

Melting & Casting Instructions

Temperatures

	Karat	°C	۴
Dro alloving	9K - 14K	1100° - 1120° C	2012° - 2048° F
Pre alloying	18K	1050° - 1060° C	1922° - 1940° F
	10K	1090° - 1100° C	1994° - 2030° F
Casting	14K	1005° - 1025° C	1841° - 1877° F
	18K	965° - 985° C	1769° - 1805° F
Flask	9K - 18K	540° - 675° C	1004° - 1247° F
Quench Time	10-12 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