

Color - White Purpose - Casting Karat - 9K - 14K

Physical & Mechanical Properties											
Composition		Color Coordinates				Density (g/cc)		As cast Hardness (HV)			
Cu	36.00%	Karat	L*	a*	b*	10K 943	11.45	10K 943	211		
Ag	28.00%		-	au	101 943	11.45	101 343	211			
Zn	20.00%	10K 943	88.70	-0.41	9.60	14K 943	12.06	14K 943	163		
Ni	16.00%	14K 943	88.53	-0.13	11.76	14K 943	12.96	141 943	102		
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Melting &	Casting	Instructions	
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Temperatures									
Karat		°C	۴						
Pre alloying	9К - 14К	1050° - 1060° C	1922° - 1940° F						
Casting	10K	835° - 855° C	1535° - 1571° F						
Casting	14K	845° - 865° C	1553° - 1589° F						
Flask	9К - 14К	540° - 675° C	1004° - 1047° F						
Quench Time 20-30 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