

Physical & Mechanical Properties

Composition		Color Coordinates				Density (g/cc)		As cast Hardness (HV)	
		Karat	L*	a*	b*				
Cu	15.00%	10K 936	93.14	-1.28	13.14	10K 936	12.16	10K 936	157
Ag	70.00%								
Zn	15.00%								
Ni	0.00%								

Melting & Casting Instructions

Temperatures			
	Karat	°C	°F
Pre alloying	10K	1030° C - 1040° C	1886° F - 1904° F
Casting	10K	875° C - 895° C	1607° F - 1643° F
Flask	10K	510° C - 650° C	950° F - 1202° F

Quench Time	25 - 30 Minutes
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Remelting	50% Fresh Mix
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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 aggressive 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.
- Gypsum bonded investment is recommended. Follow manufacturer'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