

## **Technical sheet - Alloy 240**

Color - Tint of Greenish Yellow Purpose - Casting Karat - 9K - 14K

	r nysical & Mechanical r roperties									
	Composition		Color Coordinates				Density (g/cc)		As cast Hardness (HV)	
	Cu Ag	72.0% 11.0%	Karat	L*	а*	b*	10K 240	11.19	10K 240	133
ľ	Zn	17.0%	10K 240	89.64	1.82	20.32	14K 240	12.72	14K 240 14	143
ĺ	Ni	0.0%	14K 240	88.35	2.83	20.11				143

Physical & Mechanical Properties

## **Melting & Casting Instructions**

Temperatures											
	Karat	°C	°F								
Pre alloying	9К - 14К	1010° - 1040° C	1850° - 1910° F								
Casting	10K	950° - 970° C	1742° - 1878° F								
Casting	14K	930° - 950° C	1706° - 1742° F								
Flask	9К - 14К	510° - 650° C	950° - 1202° F								
Quench Time	15-20 Minutes	Remelting	35%-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