

## Technical sheet - Alloy 232

Color - Dark Yellow

Purpose - Casting

Karat - 9K - 14K

### Physical & Mechanical Properties

Composition		Color Coordinates				Density (g/cc)		As cast Hardness (HV)	
		Karat	L*	a*	b*				
Cu	73.7%	10K 232	89.33	3.80	19.39	10K 232	11.43	10K 232	127
Ag	14.8%					14K 232	12.92	14K 232	143
Zn	11.5%								
Ni	0.0%								

### Melting & Casting Instructions

Temperatures			
	Karat	°C	°F
Pre alloying	9K - 14K	1010° - 1040° C	1850° - 1910° F
Casting	10K	945° - 965° C	1733° - 1769° F
	14K	940° - 960° C	1724° - 1760° F
Flask	9K - 14K	510° - 650° C	950° - 1202° F
Quench Time	20-25 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 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

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