

Technical sheet - Alloy T3

Color - Greenish Yellow

Purpose - Casting

Karat - 9K - 14K

Physical & Mechanical Properties

Composition		Color Coordinates				Density (g/cc)		As cast Hardness (HV)	
		Karat	L*	a*	b*	10K T3	11.02	10K T3	122
Cu	72.0%	10K T3	90.74	0.61	20.74	14K T3	12.56	14K T3	134
Ag	5.0%								
Zn	23.0%								
Ni	0.0%								

Melting & Casting Instructions

Temperatures			
	Karat	°C	°F
Pre alloying	9K - 14K	1030° - 1065° C	1886° - 1949° F
Casting	9K-10K	955° - 975° C	1750° - 1786° F
	14K	935° - 955° C	1715° - 1750° F
Flask	9K - 14K	510° - 650° C	950° - 1202° F
Quench Time	15 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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