

Technical sheet - Alloy 264

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 264	11.45	10K 264	167
Cu	57.00%								
Ag	27.50%								
Zn	15.50%	10K 264	91.1	0.74	18.2				
Ni	0.00%	14K 264	87.1	1.57	20.5	14K 264	12.96	14K 264	183

Melting & Casting Instructions

Temperatures			
	Karat	°C	°F
Pre alloying	9K - 14K	1010° - 1040° C	1850° - 1910° F
Casting	10K	890° - 910° C	1634° - 1870° F
	14K	895° - 915° C	1643° - 1679° 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

E-mail / techteam@unitedpmr.com Web-Site / www.unitedpmr.com