

Technical sheet - Alloy 241

Color - Rich Yellow Purpose - Casting Karat - 9K - 14K

Physical & Mechanical Properties

Composition		
Cu	64.0%	
Ag	26.0%	
Zn	10.0%	
Ni	0.0%	

Color Coordinates			
Karat	L*	a*	b*
10K 241	89.45	4.44	18.34
14K 241	87.95	4.97	19.34

Density	Density (g/cc)		
10K 241	11.63		
14K 241	13.12		

As cast Hardness (HV)	
10K 241	151
14K 241	163

Melting & Casting Instructions

Temperatures						
	Karat	°C	°F			
Pre alloying	9K - 14K	1010° - 1040° C	1850° - 1910° F			
Casting	10K	935° - 955° C	1715° - 1751° F			
	14K	920° - 940° C	1688° - 1724° F			
Flask	9K - 14K	510° - 650° C	950° - 1202° F			
Quench Time	15-20 Minutes	Remelting	35%-50% Fresh Mix			

General Instructions

- Very little <u>boric acid</u> flux is recommended. Do not use carbon flux such as soda ash, saltpeter etc. No flux needed in bottom pour automatic casting unit.
- <u>Flouric based</u> investment removers are the best for silicon oxide invisible coating. Use of aggresive acid causes corrosion and surface damage. <u>United's brite cast</u> investment removers works effectively.
- To calculate the weight of the metal needed (in grams), <u>multiply density (gm/cc) with weight of wax</u> (grams). Add 10% of the total weight for button.
- Gypsum bonded 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