

Technical sheet - Alloy 630

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

Physical & Mechanical Properties

Composition		Colo	r
Cu	68.20%	Karat	Ī
Ag	22.80%	Naiat	
Zn	9.00%	10K 630	Ī
Ni	0	14K 630	Ī

Color Coordinates			
Karat	L*	a*	b*
10K 630	82.17	4.09	17.81
14K 630	87.3	4.41	19.08

Density (g/cc)		
10K 630	11.53	
14K 630	13.03	

As cast Hardness (HV)	
10K 630	144
14K 630	163

Melting & Casting Instructions

Temperatures							
	Karat	°C	°F				
Pre alloying	9K - 14K	1040° - 1050° C	1904° - 1922° F				
Casting	10K	935° - 955° C	1715° - 1751° F				
	14K	930° - 950° C	1706° - 1742° F				
Flask	9K - 14K	510° - 650° C	950° - 1202° F				
Quench Time	15-20 Minutes	Remeltin	g 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