

Technical sheet - Alloy 950

Color - Medium White Purpose - Casting Karat - 10K - 14K

Physical & Mechanical Properties

Composition		
Cu	59.00%	
Ag	0.00%	
Zn	20.00%	
Ni	21.00%	

Color Coordinates			6
Karat	L*	a*	b*
10K 950	85.74	0.296	9.101
14K 950	85.85	0.897	11.07

Density (g/cc)	
10K 950	10.99
18K 950	12.54

As cast Hardness (HV)	
14K 950	171
18K 950	163

Melting & Casting Instructions

Temperatures				
	Karat	°C	°F	
Pre alloying	10K - 14K	1060° - 1070° C	1940° - 1958° F	
Casting	10K	1055° - 1075° C	1931° - 1967° F	
	14K	1020° - 1040° C	1868° - 1904° F	
Flask	10K - 14K	540° - 675° C	1004° - 1250° F	
Quench Time	8 - 12 Minutes	Remelting	70% 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