

Technical sheet - Alloy 907

Color - Premium White **Purpose** - Casting **Karat** - 14K - 18K

Physical & Mechanical Properties

Composition			
Cu	40.0%		
Ag	0.0%		
Zn	20.0%		
Ni	40.0%		

Color Coordinates				
Karat	L*	a*	b*	
14K 907	83.97	-0.443	5.67	
18K 907	83.99	0.316	8.48	

Density (g/cc)		
10K 907	12.6	
18K 907	14.64	

As cast Hardness (HV)	
14K 907	215
18K 907	233

Melting & Casting Instructions

Temperatures				
	Karat	°C	°F	
Pre alloying	14K - 18K	1080° - 1090° C	1976° - 1994° F	
Casting	14K	1055° - 1075° C	1931° - 1967° F	
Casting	18K	1010° - 1030° C	1850° - 1886° F	
Flask	14K - 18K	540° - 675° C	1004° - 1247° F	
Quench Time	8 - 10 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