

Technical sheet - Alloy M930

Color - Premium White **Purpose** - Casting **Karat** - 9K - 18K

Physical & Mechanical Properties

Composition		
Cu	57.00%	
Ag	0.00%	
Zn	21.00%	
Ni	22.00%	

Color Coordinates				
Karat	L*	a*	b*	
10K M930	85.51	0.249	8.84	
14K M930	86.56	0.8	10.2	
18K M930	85.8	0.239	9.44	

Density (g/cc)		
10K M930	10.98	
14K M930	12.52	
18K M930	14.57	

As cast Hardness (HV)		
10K M930	174	
14K M930	191	
18K M930	211	

Melting & Casting Instructions

Temperatures				
	Karat	°C	°F	
Pre alloying	10K - 18K	1040° - 1050° C	1904° - 1922° F	
	10K	1060° - 1080° C	1940° - 1976° F	
Casting	14K	1025° - 1045° C	1877° - 1913° F	
	18K	995° - 1015° C	1823° - 1859° F	
Flask	9K - 18K	540° - 675° C	1004° - 1250° F	
Quench Time	25-30 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