

Technical sheet - Alloy 917

Color - Medium White Purpose - Casting Karat - 14K

Physical & Mechanical Properties

Composition		
Cu	57.50%	
Ag	2.50%	
Zn	19.00%	
Ni	21.00%	

Color Coordinates			
Karat	L*	a*	b*
14K 917	85.04	0.61	7.2

Density (g/cc)		
14K 917	12.65	

As cast Hardness (HV)		
14K 917	168	

Melting & Casting Instructions

Temperatures			
Karat °C °F			
Pre alloying	14K	1050° C - 1070° C	1922° F - 1958° F
Casting	14K	1020° C - 1040° C	1870° F - 1904° F
Flask	14K	540° C - 650° C	1004° F - 1247° F

Quench Time	15 - 20 Minutes	R	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 aggressive acid causes corrosion and surface damage. *United's brite cast* 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 -Web-Site - www.unitedpmr.com