

Technical sheet - Alloy 930

Color - Ultra White

Purpose - Casting

Karat - 9K - 18K

Physical & Mechanical Properties

Composition		Color Coordinates				Density (g/cc)		As cast Hardness (HV)	
		Karat	L*	a*	b*				
Cu	57.00%	10K 930	86.33	0.14	8.89	10K 930	10.99	10K 930	164
Ag	0.00%	14K 930	86.56	0.8	10.2	14K 930	12.54	14K 930	181
Zn	21.00%	18K 930	85.54	1.59	13.5	18K 930	14.58	18K 930	226
Ni	22.00%								

Melting & Casting Instructions

Temperatures				
	Karat	°C	°F	
Pre alloying	10K	1060° - 1080° C	1940° - 1976° F	
	14K - 18K	1050° - 1060° C	1922° - 1940° F	
Casting	10K	1055° - 1075° C	1931° - 1967° F	
	14K	1015° - 1035° C	1859° - 1895° F	
	18K	990° - 1010° C	1814° - 1850° F	
Flask	9K - 18K	540° - 675° C	1004° - 1247° F	
Quench Time	10 - 12 Minutes		Remelting	70% Fresh Mix

General Instructions

- Very little boric acid flux is recommended. Do not use carbon flux such as soda ash, saltpeter etc. No flux needed in bottom pour automatic casting unit.
- Flouric based 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), multiply density (gm/cc) with weight of wax (grams). Add 10% of the total weight for button.
- Gypsum bonded investment is recommended. Follow manufacturer'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