

Technical sheet - 548

Color - Pink Purpose - All Purpose Karat - 9K - 18K

r nysicar & McChamcar r oper ties										
Composition		Color Coordinates				Density (g/cc)		As cast Hardness (HV)		
Cu	93.00%	Karat	L*	a*	b*					
Ag	4.00%	10K 548	86.28	9.37	15.76	10K 548	11.49	10K 548	112	
Zn	3.00%	14K 548	86.28	9.27	16.07	14K 548	13.00	14K 548	140	
Ni	0.00%	18K 548	83.51	9.73	17.41	18K 548	14.95	18K 548	187	
									-	

Physical & Mechanical Properties

Melting & Casting Instructions

Temperatures									
	Karat	°C	°F						
Pre alloying	9K - 18K	1050° - 1060° C	1922° - 1940° F						
	10К	1035° - 1055° C	1895° - 1931° F						
Casting	14K	995° - 1015° C	1823° - 1859° F						
	18K	975° - 995° C	1787° - 1823° F						
Flask	9K - 18K	510° - 650° C	950° - 1202° F						
Quench Time15 Mins (9-14K), 3 mins button first (18K)Remelting50% 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 aggresive 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.

• <u>Gypsum bonded</u> 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