

Technical sheet - 543

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

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Composition		Color Coordinates				Density (g/cc)		As cast Hardness (HV)			
Cu	92.50%	Karat	L*	a*	b*						
Ag	4.50%	10K 543	86.88	9.71	14.98	10K 543	11.53	10K 543	124		
Zn	3.00%	14K 543	85.02	9.51	15.32	14K 543	13.03	14K 543	134		
Ni	0.00%	18K 543	84.22	9.6	16.57	18K 543	14.98	18K 543	177		
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Physical & Mechanical Properties

Melting & Casting Instructions

Temperatures									
	Karat	°C	°F						
Pre alloying	9K - 18K	1040° - 1050° C	1904° - 1922° F						
	10К	1035° - 1055° C	1895° - 1931° F						
Casting	14K	1000° - 1025° C	1832° - 1868° F						
	18K	980° - 1000° C	1796° - 1832° F						
Flask	9K - 18K 510° - 650° C		950° - 1202° F						
Quench Time	15 Mins (9-14K), 3 mins button f	irst (18K) Rem	50% 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