

Color - Premium Russian Red Purpose - Casting Karat - 9K - 14K

riysical & Mechanical rioperties										
Composition		Color Coordinates				Density (g/cc)		As cast Hardness (HV)		
Cu	82.0% 15.0%	Karat	L*	a*	b*	10K 525	11.61	10K 525	129	
Ag Zn	3.0%	10K 525	87.4	8.33	17.44	141/ 525	13.1	14K 525	154	
Ni	0.0%	14K 525	87.15	8.11	17.83	14K 525	15.1	14N 325	154	

Physical & Mechanical Properties

Melting & Casting Instructions

Temperatures										
	Karat	°C	۴							
Pre alloying	9К - 14К	1040° - 1050° C	1904° - 1922° F							
Casting	10K	985° - 1005° C	1805° - 1840° F							
Casting	14K	965° - 985° C	1770° - 1805° F							
Flask	9К - 14К	510° - 650° C	950° - 1202° F							
Quench Time	15 Minutes	Remelting	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