

Technical sheet - Alloy NA525

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

Physical & Mechanical Properties

Composition		
Cu	82.00%	
Ag	15.00%	
Zn	3.00%	
Ni	0.00%	

Color Coordinates				
Karat	L*	a*	b*	
10K NA525	86.14	7.99	12.24	
14K NA525	86.13	7.9	17.26	

Density (g/cc)		
10K NA525	11.57	
14K NA525	13.05	

As cast Hardness (HV)	
10K NA525	143
14K NA525	161

Melting & Casting Instructions

Temperatures						
	Karat	°C	°F			
Pre alloying	9K - 14K	1050° - 1060° C	1922° - 1940° F			
Casting	10K	995° - 1015° C	1823° - 1858° F			
Casting	14K	960° - 980° C	1760° - 1796° F			
Flask	9K - 14K	510° - 650° C	1004° - 1202° F			
Quench Time	15 Minutes	Remelting	50% 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 aggresive acid causes corrosion and surface damage. <u>United's brite cast</u> 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 / techteam@unitedpmr.com Web-Site / www.unitedpmr.com

