

Technical sheet - Alloy VHF 1

Color - Light Greenish Yellow Purpose - Casting Karat - 9K - 14K

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Composition		Color Coordinates				Density (g/cc)		As cast Hardness (HV)		
Cu Ag	68.70% 17.30%	Karat	L*	a*	b*	10K VHF1	11.37	10K VHF1	129	
Zn	14.00%	10K VHF1	88.59	2.58	19.31	14K VHF1	12.88	14K VHF1 13	125	
Ni	0.00%	14K VHF1	88.31	3.54	19.81				132	

Physical & Mechanical Properties

Melting & Casting Instructions

Temperatures										
	Karat	°C	°F							
Pre alloying	9К - 14К	1000° - 1030° C	1832° - 1886° F							
Casting	10К	945° - 965° C	1732° - 1768° F							
Casting	14K	925° - 945° C	1696° - 1732° F							
Flask	9К - 14К	510° - 650° C	1004° - 1202° F							
Quench Time	20 - 25 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