

Technical sheet - Alloy VHF2

Color - Standard Yellow Purpose - Casting Karat - 9K - 14K

Physical & Mechanical Properties										
Composition		Color Coordinates				Density (g/cc)		As cast Hardness (HV)		
Cu	74.5%	Karat	L*	a*	b*	10K VHF2	11.35	10K VHF2	123	
Ag	13.0%	Rarat	.		~		11.55		125	
Zn	12.5%	10K VHF2	88.28	3.93	19.31	14K VHF2	12.86	14K VHF2 13	127	
Ni	0.0%	14K VHF2	89.66	4.31	18.88				121	

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Melting	& Casting	Instructions
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Temperatures									
	Karat	°C	°F						
Pre alloying	9K - 14K	1000° - 1030° C	1832° - 1885° F						
Casting	10K	975° - 995° C	1786° - 1822° F						
Casting	14K	945° - 965° C	1732° - 1768° F						
Flask	9K - 14K	510° - 650° C	950° - 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