

Technical sheet - Alloy 575

Color - Green
Purpose - All Purpose
Karat - 9K - 18K

Physical & Mechanical Properties

Composition		
Cu	20.00%	
Ag	78.00%	
Zn	2.00%	
Ni	0.00%	

Color Coordinates				
Karat	L*	a*	b*	
10K 575	93.5	-1.91	15.38	
14K 575	92.84	-2.38	19.63	
18K 575	90.61	-1.11	26.77	

Density (g/cc)			
12.48			
13.89			
15.65			

As cast Hardness (HV)		
10K 575	159	
14K 575	141	
18K 575	96	

Melting & Casting Instructions

Temperatures			
	Karat	°C	°F
Pre alloying	9K - 18K	1040° - 1050° C	1904° - 1922° F
	10K	920° - 940° C	1689° - 1725° F
Casting	14K	965° - 985° C	1769° - 1805° F
	18K	975° - 995° C	1787° - 1823° F
Flask	9K - 18K	510° - 650° C	950° - 1202° F

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Quench Time	8 - 12 Mins		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