

Technical sheet - Alloy 570

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

Physical & Mechanical Properties

Composition		
Cu	14.90%	
Ag	84.10%	
Zn	1.00%	
Ni	0.00%	

Color Coordinates			
Karat	L*	a*	b*
10K 570	93.66	-1.84	15.1
14K 570	92.92	-2.69	20.93
18K 570	89.9	-1.64	28

Density (g/cc)			
10K 570	12.67		
14K 570	14.05		
18K 570	15.77		

As cast Hardness (HV)		
10K 570	127	
14K 570	109	
18K 570	113	

Melting & Casting Instructions

Temperatures				
Karat °C °F				
Pre alloying	9K - 18K	1040° - 1050° C	1904° - 1922° F	
	10K	965° - 985° C	1769° - 1805° F	
Casting	14K	995° - 1015° C	1823° - 1859° F	
	18K	1045° - 1065° C	1931° - 1967° 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