

## **Technical sheet - Alloy 534**

Color - Rose Pink
Purpose - All purpose
Karat - 18K

## **Physical & Mechanical Properties**

Composition		
Cu	91.5%	
Ag	4.5%	
Zn	4.0%	
Ni	0.0%	

Color Coordinates			
Karat	L*	a*	b*
18K 534	84.27	9.87	16.35

Density	(g/cc)
18K 534	14.99

As cast Hardness (HV)	
18K 534 - 3 mins quench	245

## **Melting & Casting Instructions**

Temperatures			
	Karat	°C	°F
Pre alloying	18K	1050° - 1070° C	1922° - 1958° F
Casting	18K	970° C - 990° C	1778° - 1814° F
Flask	18K	510° - 650° C	950° - 1202° F

Quench Time 2-3 mins, button first Remelting
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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