

Technical sheet - Alloy PD11

Color - Bright White Purpose - Casting Karat - 18K

Physical & Mechanical Properties

Composition		Color Coordinates			
Cu	28.60%	Karat	L*	a*	b*
Ag	1.00%	Naiat			
Zn	12.00%	18K PD11	00 21	2.09	7.4
Pd	58.40%	TOKADII	00.51	2.09	7.4

Density	(g/cc)
18K PD11	15.79

As cast Hardness (HV)	
18K PD11	225

Melting & Casting Instructions

Temperatures				
	Karat	°C	°F	
Pre alloying	18K	1250° C - 1270° C	2282° F - 2318° F	
Casting	18K	1150° C - 1170° C	2102° F - 2138° F	
Flask	18K	540° C - 675° C	1004° F - 1247° F	

	Quench Time	20-25 Minutes		Remelting	50% Fresh Mix
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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 aggresisve 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.
- Phosphate bonded investment is recommended. Follow manufacturer'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