

TECHNICAL DATA SHEET

PRIMA215AIB - 375 ‰

Master alloy for the production of white 375 - 417 - 585 ‰ gold jewellery obtained by investment casting. This product, thanks to its complex composition made of numerous different special elements, ensures an extreme level of deoxidation, an extreme surface quality, an enhanced fluidity and a long lasting of this features also after many reuses of casting scraps, making it the most advanced solution for castings with and without stones in place.

TAB.1 - Mechanical data

Hardness as cast	157	HV
Hardness hardened	206	HV
Tensile strength	659	MPa
Yield strength	466	MPa
Elongation	25	%

TAB.2 - Physical data

Color	Premium white		
Colour Coordinates	L*:	87.15	
	a*:	-0.12	
	b*:	8.96	
Density	11.13	g/cm ³	
Melting Range	Solidus:	867	°C
	Liquidus:	923	°C

TAB.3 - Heat treatments

Solution annealing	675 20	°C min
Recrystallization Annealing	675 20	°C min
Hardening	300	°C
	180	min

TAB.4 - Investment casting parameters

Premelting temperature		1023	°C
Casting Temperature	Min: Max:	973 1073	°C °C
Water investment powder ratio		36-38	%
Flask temperature	Min: Max:	450 700	°C °C
Quenching time without stones in place	Min: Max:	5 20	min min
Quenching time with stones in place		15	min in boiling water
Pickling	H2SO4: Temp: Time:	20 50 50	% °C min