

TECHNICAL DATA SHEET

PRIMA210_GD - 585 ‰

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	150	HV
Hardness hardened	n.d.	
Tensile strength	439	MPa
Yield strength	174	MPa
Elongation	57	%

TAB.2 - Physical data

Color	Off-white		
Colour Coordinates	L*:	88.01	
	a*:	3.05	
	b*:	13.11	
Density	12.72	g/cm ³	
Melting Range	Solidus:	916	°C
	Liquidus:	953	°C

TAB.3 - Heat treatments

Solution annealing	675 20	°C min
Recrystallization Annealing	675 20	°C min
Hardening	n.d.	

TAB.4 - Investment casting parameters

Premelting temperature		1053	°C
Casting Temperature	Min: Max:	1003 1103	°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