

TECHNICAL DATA SHEET

PRIMA315LB - 585 ‰

Master alloy for the production of yellow 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	141	HV
Hardness hardened	194	HV
Tensile strength	330	MPa
Yield strength	211	MPa
Elongation	46	%

TAB.2 - Physical data

Color	Pale yellow		
Colour Coordinates	L*:	89.61	
	a*:	2.69	
	b*:	19.24	
Density	12.92	g/cm ³	
Melting Range	Solidus:	816	°C
	Liquidus:	865	°C

TAB.3 - Heat treatments

Solution annealing	675 20	°C min
Recrystallization Annealing	675 20	°C min
Hardening	275	°C
	180	min

TAB.4 - Investment casting parameters

Premelting temperature		965	°C
Casting Temperature	Min:	915	°C
	Max:	1015	°C
Water investment powder ratio		36-38	%
Flask temperature	Min:	450	°C
	Max:	700	°C
Quenching time without stones in place	Min:	5	min
	Max:	20	min
Quenching time with stones in place		15	min in boiling water
Pickling	H2SO4:	20	%
	Temp:	50	°C
	Time:	50	min