

TECHNICAL DATA SHEET

PRIMA695LI + Ag12% - 585 ‰

Master alloy for the production of red 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. The use is suggested with the addition of 10 - 20 % of pure silver to the master alloy.

TAB.1 - Mechanical data

Hardness as cast	123	HV
Hardness hardened	154	HV
Tensile strength	430	MPa
Yield strength	210	MPa
Elongation	56	%

TAB.2 - Physical data

Color	Russian red		
Colour Coordinates	L*:	84.93	
	a*:	7.81	
	b*:	16.45	
Density	12.93	g/cm ³	
Melting Range	Solidus:	854	°C
	Liquidus:	900	°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		1000	°C
Casting Temperature	Min: Max:	950 1050	°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