

TECHNICAL DATA SHEET

PLAST312L - 375 ‰

Master alloy for the production of yellow 375 - 417 ‰ gold jewellery obtained by mechanical working. The elements contained in this product ensure a high surface quality and a high deformation capability thanks the small grain structure, making it suitable for the production of hand and machine made hollow and solid chains, deep drawn items and tube.

TAB.1 - Mechanical data

Hardness as cast	115	HV
Hardness hardened	n.d.	
Tensile strength	477	MPa
Yield strength	250	MPa
Elongation	28	%

TAB.2 - Physical data

Color	Deep yellow		
Colour Coordinates	L*:	91.85	
	a*:	3.55	
	b*:	18.52	
Density	11.07	g/cm ³	
Melting Range	Solidus:	819	°C
	Liquidus:	908	°C

TAB.3 - Heat treatments

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

TAB.4 - Mechanical working parameters

Premelting temperature		1008	°C
Casting Temperature	Min:	958	°C
	Max:	1058	°C
First thickness reduction	Lamination:	50	%
	Drawing:	25	%
Following thickness reductions	Lamination:	75	%
	Drawing:	50	%
Pickling after annealing	H2SO4:	20	%
	Temp:	50	°C
	Time:	5	min