

## TECHNICAL DATA SHEET

### PLAST315L\_GD - 375 ‰

Master alloy for the production of yellow 375 - 417 - 585 ‰ 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	110	HV
Hardness hardened	160	HV
Tensile strength	493	MPa
Yield strength	255	MPa
Elongation	34	%

TAB.2 - Physical data

Color	Deep yellow		
Colour Coordinates	L*:	91.27	
	a*:	1.99	
	b*:	18.64	
Density	11.05	g/cm <sup>3</sup>	
Melting Range	Solidus:	817	°C
	Liquidus:	903	°C

TAB.3 - Heat treatments

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

TAB.4 - Mechanical working parameters

Premelting temperature		1003	°C
Casting Temperature	Min:	953	°C
	Max:	1053	°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