

TECHNICAL DATA SHEET

PLAST346H - 750 ‰

Master alloy for the production of yellow 750 ‰ 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	142	HV
Hardness hardened	225	HV
Tensile strength	510	MPa
Yield strength	350	MPa
Elongation	28	%

TAB.2 - Physical data

Color	Deep yellow		
Colour Coordinates	L*:	89.85	
	a*:	3.51	
	b*:	21.88	
Density	14.85	g/cm ³	
Melting Range	Solidus	859	°C
	Liquidus	875	°C

TAB.3 - Heat treatments

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

TAB.4 - Mechanical working parameters

Premelting temperature		975	°C
Casting Temperature	Min	925	°C
	Max	1025	°C
First thickness reduction	Laminazione	50	%
	Trafilatura	25	%
Following thickness reductions	Laminazione	75	%
	Trafilatura	50	%
Pickling after annealing	H2SO4	20	%
	Temp.	50	°C
	Time:	5	Min