

TECHNICAL DATA SHEET

PLAST246 - 750 ‰

Master alloy for the production of white 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	231 HV
Hardness hardened	n.d.
Tensile strength	623 MPa
Yield strength	459 MPa
Elongation	32 %

TAB.2 - Physical data

Color	Premium white
Colour Coordinates	L*: 86.33 a*: 0.59 b*: 9.19
Density	14.74 g/cm ³
Melting Range	Solidus: 925 °C Liquidus: 945 °C

TAB.3 - Heat treatments

Solution annealing	700 °C - 20 min
Recrystallization Annealing	750 °C - 30 min
Hardening	n.d.

TAB.4 - Mechanical working parameters

Premelting temperature	1045 °C
Casting Temperature	Min: 995 °C Max: 1095 °C
First thickness reduction	Lamination: 40 % Drawing: 20 %
Following thickness reductions	Lamination: 60 % Drawing: 35 %
Pickling after annealing	H2SO4: 20 %Temp: 50 °C - 5 min