

## TECHNICAL DATA SHEET

### PLAST210 - 375 ‰

Master alloy for the production of white 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	n.d.
Tensile strength	507 MPa
Yield strength	242 MPa
Elongation	30 %

TAB.2 - Physical data

Color	Off-white
Colour Coordinates	L*: 88.34a*: 0.85 b*: 11.63
Density	10.85 g/cm <sup>3</sup>
Melting Range	Solidus: 938 °C Liquidus: 1011 °C

TAB.3 - Heat treatments

Solution annealing	675 °C - 20 min
Recrystallization Annealing	700 °C - 30 min
Hardening	n.d.

TAB.4 - Mechanical working parameters

Premelting temperature	1111 °C
Casting Temperature	Min: 1061 °CMax: 1161 °C
First thickness reduction	Lamination: 50 %Drawing: 25 %
Following thickness reductions	Lamination: 75 %Drawing: 50 %
Pickling after annealing	H2SO4: 20 %Temp: 50 °C - 5 min