

TECHNICAL DATA SHEET

PLAST682R + Ag20% - 417 ‰

Master alloy for the production of yellow 375 - 417 - 585 - 750 - 875 - 917 ‰ 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. The use is suggested with the addition of 0 - 40 % of pure silver to the master alloy.

TAB.1 - Mechanical data

Hardness as cast	118	HV
Hardness hardened	220	HV
Tensile strength	n.d.	
Yield strength	n.d.	
Elongation	n.d.	

TAB.2 - Physical data

Color	Deep yellow		
Colour Coordinates	L*:	89.41	
	a*:	-0.22	
	b*:	23.05	
Density	11.42	g/cm ³	
Melting Range	Solidus:	809	°C
	Liquidus:	883	°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		983	°C
Casting Temperature	Min:	933	°C
	Max:	1033	°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