METALTECH
THE POWER OF RESULTS
Metaltech srl | Via Saviabona 113/G | 36010 | Cavazzale di Monticello Conte Otto (VI) | ITALIA
C.F. e P.IVA 03955300243 | Reg. Imprese VI: 03955300243 | REA: VI - 367516 | Cap. Soc. € 10.000,00 i.v.

TECHNICAL DATA SHEET

PLAST120M + Ag11% - 417 ‰

Master alloy for the production of red 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. The use is suggested with the addition of 10 - 20 % of pure silver to the master alloy.

TAB.1 - Mechanical data

Hardness as cast	101	HV
Hardness hardened	n.d.	
Tensile strength	501	MPa
Yield strength	251	MPa
Elongation	33	%

TAB.2 - Physical data

Color		Deep red	
Colour Coordinates	L*: a*: b*:	90.20 3.7 19.5	
Density		11.35	g/cm3
Melting Range	Solidus: Liquidus:	832 912	°C °C

TAB.3 - Heat treatments

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

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TAB.4 - Mechanical working parameters

Premelting temperature		1012	°C
Casting Temperature	Min: Max:	962 1062	°C °C
First thickness reduction	Lamination: Drawing:	50 25	% %
Following thickness reductions	Lamination: Drawing:	75 50	% %
Pickling after annealing	H2SO4: Temp: Time:	20 50 5	% °C min