



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.





Master alloy for the production of yellow 585 - 750 - 875 - 917 ‰ gold jewellery obtained by investment casting. This product, thanks to its complex composition made of numerous different special elements, ensures an extreme level of deoxidation, an extreme surface quality, an enhanced fluidity and a long lasting of this features also after many reuses of casting scraps, making it the most advanced solution for castings with and without stones in place. The use is suggested with the addition of 10 - 40 % of pure silver to the master alloy.

TAB.1 - Mechanical data

Hardness as cast	116	HV
Hardness hardened	n.d.	
Tensile strength	400	MPa
Yield strength	215	MPa
Elongation	36	%

TAB.2 - Physical data

Color	Deep yellow
Colour Coordinates	L*: 84.42 a*: 8.03 b*: 23.12
Density	18.43 g/cm3
Melting Range	Solidus: 902 °C Liquidus: 927 °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 - Investment casting parameters

Premelting temperature		1027	°C
Casting Temperature	Min: Max:	977 1077	°C °C
Water investment powder ratio		36-38	%
Flask temperature	Min: Max:	450 700	°C
Quenching time without stones in place	Min: Max:	5 20	min min
Quenching time with stones in place		15	min in boiling water
Pickling	H2SO4: Temp: Time:	20 50 50	% °C min