



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.





PRIMA320L - 417 ‰

Master alloy for the production of yellow 375 - 417 - 585 - 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.

TAB.1 - Mechanical data

Hardness as cast	118	HV
Hardness hardened	220	HV
Tensile strength	352	MPa
Yield strength	157	MPa
Elongation	47	%

TAB.2 - Physical data

Color	Pale yellow
Colour Coordinates	L*: 91.45 a*: 1.06 b*: 18.41
Density	11.42 g/cm3
Melting Range	Solidus: 778 °C Liquidus: 863 °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		963	°C
Casting Temperature	Min: Max:	913 1013	°C
Water investment powder ratio		36-38	%
Flask temperature	Min: Max:	450 700	°C °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