

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

PRIMA320L - 585 ‰

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	141	HV		
Hardness hardened	194	HV		
Tensile strength	330	MPa		
Yield strength	211	MPa		
Elongation	46	%		

TAB.2 - Physical data

Color	Hamilton yellow
Colour Coordinates	L*: 89.61 a*: 2.69 b*: 19.24
Density	12.92 g/cm3
Melting Range	Solidus: 816 °C Liquidus: 865 °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		965	°C
Casting Temperature	Min:	915	°C
	Max:	1015	°C
Water investment powder ratio		36-38	%
Flask temperature	Min:	450	°C
	Max:	700	°C
Quenching time without stones in place	Min:	5	min
	Max:	20	min
Quenching time with stones in place		15	min in boiling water
Pickling	H2SO4:	20	%
	Temp:	50	°C
	Time:	50	min