

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

PRIMA350H - 750 ‰

Master alloy for the production of yellow 750 ‰ 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 - Mechanic	cal data				
Hardness as cast		137	HV		
Hardness hardened		219	HV		
Tensile strength		298	MPa		
Yield strength		217	MPa		
Elongation		38	%		
TAB.2 - Physical data					
Color	Pale yellow				
Colour Coordinates	L*: a*: b*:	89.61 2.57 23.58			
Density		15.28	g/cm3		
Melting Range	Solidus: Liquidus:	850 893	о° С		
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		993	°C
Casting Temperature	Min:	943	°C
	Max:	1043	°C
Water investment powder ratio		36-38	%
Flask temperature	Min:	450	°C
	Max:	700	℃
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