

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

PRIMA338H - 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 - Mechanical data	I		
Hardness as cast			149	HV
Hardness hardened			262	HV
Tensile strength			334	MPa
Yield strength			229	MPa
Elongation			37	%
	TAB.2 - Physical data			
Color			Deep yellow	
Colour Coordinates		L*: a*: b*:	88.24 4.92 22.33	
Density			15.29	g/cm3
Melting Range		Solidus: Liquidus:	876 888	°C °C
	TAB.3 - Heat treatments	i		

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		988	°C
Casting Temperature	Min:	938	°C
	Max:	1038	°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