









TECHNICAL DATA SHEET

PRIMA331HI - 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

Hardness as cast	156	HV
Hardness hardened	280	HV
Tensile strength	303	MPa
Yield strength	229	MPa
Elongation	28	%

TAB.2 - Physical data

Color	3N yellow
Colour Coordinates	L*: 88.92 a*: 4.59 b*: 21.34
Density	15 g/cm3
Melting Range	Solidus: 852 °C Liquidus: 864 °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		964	°C
Casting Temperature	Min:	914	°C
	Max:	1014	°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