



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

PRIMA230IS - 750 ‰

Master alloy for the production of white 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	204	HV
Hardness hardened	252	HV
Tensile strength	557	MPa
Yield strength	424	МРа
Elongation	30	%

TAB.2 - Physical data

Color	Premium white			
Colour Coordinates	L*: 86.33 a*: 1.8 b*: 11.25			
Density	14.66 g/cm3			
Melting Range	Solidus: 896 °C Liquidus: 930 °C			

TAB.3 - Heat treatments

Solution annealing	675 20	°C min
Recrystallization Annealing	675 20	°C min
Hardening	250 180	°C min











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TAB.4 - Investment casting parameters

Premelting temperature		1030	°C
Casting Temperature	Min: Max:	980 1080	္င
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