



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 PRIMA217A - 417 %

Master alloy for the production of white 417 - 585 - 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	168	HV
Hardness hardened	220	HV
Tensile strength	626	MPa
Yield strength	443	MPa
Elongation	24	%

# TAB.2 - Physical data

Color	Premium white		
Colour Coordinates	L*: n.d. a*: n.d. b*: n.d.		
Density	10.90 g/cm3		
Melting Range	Solidus: 803 °C Liquidus: 848 °C		

## TAB.3 - Heat treatments

Solution annealing	602 20	°C min
Recrystallization Annealing	602 20	°C min
Hardening	350 90	°C min











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# TAB.4 - Investment casting parameters

Premelting temperature		948	°C
Casting Temperature	Min: Max:	898 998	္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