

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**

## PRIMA215I - 585 ‰

Master alloy for the production of white 375 - 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.

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TAB.1 - Mechanical data				
Hardness as cast	140	HV		
Hardness hardened	158	HV		
Tensile strength	457	MPa		
Yield strength	194	MPa		
Elongation	54	%		
TAB.2 - Physical data				
Color	Standard white			

COIOI	Standard white		
Colour Coordinates	L*: 87.43 a*: 2.1 b*: 10.95		
Density	14.89 g/cm3		
Melting Range	Solidus: 908 °C Liquidus: 954 °C		

## TAB.3 - Heat treatments

Solution annealing	675 20	°C min
Recrystallization Annealing	675 20	°C min
Hardening	300 180	°C min



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## TAB.4 - Investment casting parameters

Premelting temperature		1054	°C
Casting Temperature	Min:	1004	°C
	Max:	1104	°C ℃
Water investment powder ratio		36-38	%
Flask temperature	Min:	450	°C
	Max:	700	°C
Over this stime with out stores in place	Min:	5	min
Quenching time without stones in place	Max:	20	min
Quenching time with stones in place		15	min
			in boiling water
Pickling	H2SO4:	20	%
r iokiing	Temp: Time:	50 50	°C min
	Time.		111111