

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

PRIMA220AI - 750 ‰

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	187	HV		
Hardness hardened	240	HV		
Tensile strength	655	MPa		
Yield strength	465	MPa		
Elongation	25	%		
TAB.2 - Physical data				
Color	Standard white			

Colour Coordinates	L*: a*: b*:	86.18 2.95 12.63		
Density		14.7	g/cm3	
Melting Range	Solidus: Liquidus:	915 990	°C °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		1090	°C
Casting Temperature	Min:	1040	°C
	Max:	1140	°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