

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

PRIMA695LI + Ag12% - 417 ‰

Master alloy for the production of red 375 - 417 - 585 ‰ 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. The use is suggested with the addition of 10 - 20 % of pure silver to the master alloy.

TAB.1 - Mechanica	al data		
Hardness as cast		111	HV
Hardness hardened		n.d.	
Tensile strength		357	MPa
Yield strength		143	MPa
Elongation		45	%
TAB.2 - Physical	data		
Color		Deep red	
Colour Coordinates	L*: a*: b*:	89.21 6.35 16.66	
Density		11.45	g/cm3
Melting Range	Solidus: Liquidus:	849 923	°C ℃
Melting Range TAB.3 - Heat treat	Liquidus:	849 923	℃ ℃

Recrystallization Annealing	675 °C 20 min	
Hardening	275 °C 180 min	



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TAB.4 - Investment casting parameters

Premelting temperature		1023	°C
Casting Temperature	Min:	973	°C
	Max:	1073	°C
Water investment powder ratio		36-38	%
Flask temperature	Min:	450	°C
	Max:	700	℃
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