









# C.F. e P.IVA 03955300243 | Reg. Imprese VI: 03955300243 | REA: VI - 367516 | Cap. Soc. € 10.000,00 i.v.

Metaltech srl | Via Saviabona 113/G | 36010 | Cavazzale di Monticello Conte Otto (VI) | ITALIA

# TECHNICAL DATA SHEET PRIMA184LIR - 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.

#### TAB.1 - Mechanical data

Hardness as cast	103	HV
Hardness hardened	n.d.	
Tensile strength	359	MPa
Yield strength	144	MPa
Elongation	44	%

### TAB.2 - Physical data

Color	Deep red	
Colour Coordinates	L*: 87.70 a*: 7.7 b*: 16.9	
Density	11.35 g/cm3	
Melting Range	Solidus: 865 °C Liquidus: 938 °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		1038	°C
Casting Temperature	Min: Max:	988 1088	°C
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