METALTECH
THE POWER OF RESULTS
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

SPARK696LBR + Ag16% - 375 ‰

Master alloy for the production of red 375 - 417 - 585 ‰ gold jewellery obtained by investment casting. The elements contained in this product ensure a high deoxidation in casting and a high surface quality, making it suitable 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 - Mechanical data

Hardness as cast	113	HV
Hardness hardened	n.d.	
Tensile strength	396	MPa
Yield strength	163	MPa
Elongation	43	%

TAB.2 - Physical data

Color		Pale red	
Colour Coordinates	L*: a*: b*:	88.57 7.2 16.8	
Density		11.18	g/cm3
Melting Range	Solidus: Liquidus:	841 934	°C °C

TAB.3 - Heat treatments

Solution annealing	675 20	°C min
Recrystallization Annealing	675 20	°C min
Hardening	n.d.	

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TAB.4 - Investment casting parameters

Premelting temperature		1034	°C
Casting Temperature	Min: Max:	984 1084	°C °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