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

SPARK591

Brass for the production of jewels and models obtained by investment casting. The elements contained in this product ensure a high deoxidation after casting and a high surface quality, making it suitable for castings with and without stones in place.

TAB.1 - Mechanical data

Hardness as cast	125	HV
Hardness hardened	n.d.	
Tensile strength	n.d.	
Yield strength	n.d.	
Elongation	n.d.	

TAB.2 - Physical data

Color		yellow	
Colour Coordinates	L*: a*: b*:	85.51 3.32 13.54	
Density		8.62	g/cm3
Melting Range	Solidus: Liquidus:	890 985	°C °C

TAB.3 - Heat treatments

Solution annealing	660 30	°C min
Recrystallization Annealing	660 30	°C min
Hardening	n.d.	

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TAB.4 - Investment casting parameters

Premelting temperature		n.d.	
Casting Temperature	Min: Max:	1035 1135	°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:	15 50 50	% °C min