



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:	1035	°C
	Max:	1135	°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:	15	%
	Temp:	50	°C
	Time:	50	min