

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**

## SPARK676LC + Ag5% - 585 ‰

Master alloy for the production of yellow 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 0 - 20 % of pure silver to the master alloy.

TAB.1 - Mechanical data				
Hardness as cast	96	HV		
Hardness hardened	n.d.			
Tensile strength	284	MPa		
Yield strength	143	MPa		
Elongation	55	%		

#### TAB.2 - Physical data

Color	Hamilton yellow
Colour Coordinates	L*: 90 a*: 2.14 b*: 19.11
Density	12.62 g/cm3
Melting Range	Solidus: 821 °C Liquidus: 871 °C

#### TAB.3 - Heat treatments

Solution annealing	616 20	°C min
Recrystallization Annealing	616 20	°C min
Hardening	n.d. n.d.	



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.



### TAB.4 - Investment casting parameters

Premelting temperature		971	°C
Casting Temperature	Min:	921	°C
	Max:	1021	°C
Water investment powder ratio		36-38	%
Flask temperature	Min:	450	℃
	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