



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 STAR497N - 800 %

Universal master alloy for the production of 800 - 930 % sterling silver jewellery obtained by investment casting and mechanical working. The elements contained in this product ensure a high surface quality in investment casting, while in mechanical working a high deformation capability thanks the small grain structure, making it suitable for the production of hand and machine made hollow and solid chains, deep drawn items and tube.

## TAB.1 - Mechanical data

Hardness as cast		n.d.				
Hardness hardened		n.d.				
Tensile strength		n.d.				
Yield strength		n.d.				
Elongation		n.d.				
TAB.2 - Physical data						
Color		Silver				
Colour Coordinates	n.d.					
Density		10.17	g/cm3			
Melting Range	Solidus: Liquidus:	733 831	°C °C			
TAB.3 - Heat trea	atments					
Solution annealing		n.d.				
Recrystallization Annealing		n.d.				
Hardening		n.d.				











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## TAB.4 - Investment casting parameters

Premelting temperature		931	°C
Casting Temperature	Min:	881	°C
	Max:	981	°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:	20	%
	Temp:	50	°C
	Time:	50	min

## TAB.5 - Mechanical working parameters

Premelting temperature		931	°C	
Casting Temperature	Min: Max:	881 981	°C °C	
First thickness reduction	Lamination: Drawing:	50 25	% %	
Following thickness reductions	Lamination: Drawing:	75 50	% %	
Pickling after annealing	H2SO4: Temp: Time:	20 50 5	% °C min	