

TECHNICAL DATA SHEET

PRIMA466IT - 930 ‰

Master alloy for the production of 930 ‰ sterling silver jewellery 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	70	HV
Hardness hardened	136	HV
Tensile strength	212	MPa
Yield strength	82	MPa
Elongation	53	%

TAB.2 - Physical data

Color	Silver		
Colour Coordinates	L*:	95.44	
	a*:	-0.31	
	b*:	5.8	
Density	10.27	g/cm ³	
Melting Range	Solidus:	803	°C
	Liquidus:	900	°C

TAB.3 - Heat treatments

Solution annealing	650 30	°C min
Recrystallization Annealing	650 30	°C min
Hardening	300 180	°C min

TAB.4 - Investment casting parameters

Premelting temperature		1000	°C
Casting Temperature	Min:	950	°C
	Max:	1050	°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