

TECHNICAL DATA SHEET

SPARK575

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	162	HV
Hardness hardened	n.d.	
Tensile strength	650	MPa
Yield strength	525	MPa
Elongation	20	%

TAB.2 - Physical data

Color	Deep yellow		
Colour Coordinates	L*:	88.62	
	a*:	1.18	
	b*:	14.3	
Density	8.36	g/cm ³	
Melting Range	Solidus:	855	°C
	Liquidus:	920	°C

TAB.3 - Heat treatments

Solution annealing	700 30	°C min
Recrystallization Annealing	700 30	°C min
Hardening	n.d.	

TAB.4 - Investment casting parameters

Premelting temperature		1020	°C
Casting Temperature	Min: Max:	970 1070	°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:	20 50 50	% °C min