

TECHNICAL DATA SHEET

AP10

Alpacca for the production of white items, 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	n.d.
Hardness hardened	n.d.
Tensile strength	n.d.
Yield strength	n.d.
Elongation	n.d.

TAB.2 - Physical data

Color	Standard white		
Colour Coordinates	L*:	85.1	
	a*:	-0.12	
	b*:	11.20	
Density	8.30	g/cm ³	
Melting Range	Solidus:	845	°C
	Liquidus:	945	°C

TAB.3 - Heat treatments

Solution annealing	800	°C
	30	min
Recrystallization Annealing	800	°C
	30	min
Hardening	n.d.	

TAB.4 - Investment casting parameters

Premelting temperature		1045	°C
Casting Temperature	Min:	995	°C
	Max:	1095	°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