

PRODUCT SPECIFICATION

DATE	02.06.2003
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CODE	122
PRODUCT	VENTURA ORCAST PLUS
PRESENTATION	Alloy in small ingots
PACKAGING	250 g container

DESCRIPTION	Copper – Aluminium base alloy for fixed dental prostheses.
CLASSIFICATION	Class IIa Medical Device - 0318

CHEMICAL COMPOSITION

	NOMINAL CONTENT (m/m)	TOLERANCE	
		DIN 13912 : 1966 (m/m)	MADESPA, S.A. (m/m)
COPPER (Cu)	81.50 %	± 2.00 %	± 0.50 %
ALUMINIUM (Al)	7.00 %	± 1.00 %	± 0.50 %
NICKEL (Ni)	4.50 %	± 1.00 %	± 0.20 %
IRON (Fe)	3.00 %	-----	± 0.10 %
MANGANESE (Mn)	2.00 %	-----	± 0.10 %
ZINC (Zn)	2.00 %	-----	± 0.10 %

PHYSICAL PROPERTIES

	REQUIREMENTS BY NORM DIN 13912 : 1966	MADESPA, S.A. REQUIREMENTS	CONTROL		VALUES TO RECORD
			FREQUENCY	METHOD	
TENSILE STRENGTH	-----	-----	-----	-----	495 MPa
PROOF STRENGTH OF NON-PROPORT. ELONG. R _{0.2}	min 180 MPa	-----	Each lot	DIN 13912 8.2.3.2	290 MPa
ELONGATION AT FRACTURE	min 10%	-----	Each lot	DIN 13912 8.2.3.2	29 %
VICKERS HARDNESS	-----	-----	-----	-----	152
ROCKWELL A HARDNESS	-----	48,0 ≤ HRA ≤ 52,0	Each cast	IT-1006	-----
CASTING TEMPERATURE	-----	-----	-----	-----	1125 °C
SPECIFIC GRAVITY	-----	-----	-----	-----	7,8 g/ml