# **Material Data Sheet**

# for: Ceradelta®

This metal-ceramic alloy corresponds to the standards ISO 22674/Type 4 and ISO 9693.

1. Composi	ition			
	Pt group-metals		57.50%	
	Pd		57.45%	
	Ag		32.00%	
	In		6.00%	
	Sn	0	2.00%	
	Ga		1.50%	
	Zn		1.00%	
	Ru		0.05%	
2. Physical Properties				
e.	Melting range Density Young's Modulus Linear Coeff. of therm	al expansion (25-500°( al expansion (25-600°( as cast		cm³ = 'a 0 <sup>-6</sup> K <sup>-1</sup>
Elongation		255	305 965 MPa 490 MPa 19 %.	250 780 MPa 565 MPa 13 %. 37 MPa

### 4. Biological tests

CENDRES<sup>+</sup> MÉTAUX

# Cytotoxicity test according to ISO 10993-5:

The cytotoxic effect of the alloy was tested with the extract test. (Project, 100559C, 24.02.2010, BSL Bioservice, DE-82152 Planegg, FRG)

# Sensitization test according to ISO 10993-10:

The sensitization test has not been realised.

## Mutagenicity test (AMES) according to ISO 10993-3:

The AMES test has not been realised.

### **Results:**

The alloy did not show any cytotoxic potential.

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# 5. Certification

This metal-ceramic alloy corresponds to the standards ISO 22674/Type 4 and ISO 9693.

Corrosion testing according to standard ISO 10271 showed that a total of 0.58µg/cm<sup>2</sup>x7d was released (limit: 200µg/cm<sup>2</sup>x7d).

Manufacture, packing and delivery are constantly monitored according to the quality management system standards according to ISO 9001 and ISO 13485.

## Cendres+Métaux SA

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