

The alloy corresponds to the standard ISO 22674/Type 4.

1. Composition

Au + Pt group-metals	74.50%
Au	61.00%
Ag	16.50%
Pt	13.50%
Cu	9.00%

2. Physical Properties

Melting range	950-1050°C
Density	15.7 g/cm ³
Young's Modulus	96 GPa
Colour	pale yellow

3. Mechanical Properties

Condition	cold worked
Hardness HV5	25-50%KV
Tensile strength (Rm)	>250
0.2% Proof stress (Rp 0.2%)	>800 MPa
Elongation	>700 MPa
	>6 %

4. Biological Testing

Cytotoxicity Test according to ISO 10993-5:

The cytotoxic effect of the alloy was tested with the Extraction Test.
(Project, 990880E, 01.01.2000, BSL Bioservice, DE-82152 Planegg, FRG)

Sensitization Test according to ISO 10993-10:

The allergic sensitization of the alloy was tested with the Maximation Test.
(Project 990881E, 01.01.2000, BSL Bioservice, DE-82152 Planegg, FRG)

Mutagenicity Test (AMES) according to ISO 10993-3:

There have been no AMES test.

Results:

The alloy showed no cytotoxic potential nor did it cause any allergic sensitization.

5. Certification

The alloy corresponds to the standard ISO 22674/Type 4.

Corrosion testing according to standard ISO/DIS 10271 showed, that a total of 0.204µg/cm²×7d was set free (limit: 200µg/cm²×7d).

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

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