Material Data Sheet
for: Yellow Special

This casting alloy corresponds to the standard ISO 22674/Type 4.

1. Composition
   Au + Pt group-metals 43.20%
   Ag 44.90%
   Au 41.00%
   Cu 11.00%
   Pd 1.70%
   Zn 0.70%
   Pt 0.45%
   Sn 0.20%
   Ru 0.05%

2. Physical Properties
   Melting range 825-900°C
   Density 12.5 g/cm³
   Young's Modulus 90 GPa
   Colour yellow

3. Mechanical Properties
   Condition
   Hardness HV5 as cast 160 soft 650°C/10'/H2O 400°C/15/air 260
   Tensile strength (Rm)
   0.2% Proof stress (Rp 0.2%)
   Elongation
   515 MPa 400 MPa 20 %.
   450 MPa 275 MPa 31 %.
   670 MPa 440 MPa 13 %.

4. Biological tests

Cytotoxicity test according to ISO 10993-5:
The cytotoxic effect of the alloy was tested with the extract test.
(Project, 1, 12.09.1995, Laboratoires Prof. Craig & Wataha, University of Michigan, Ann Arbor, Michigan, USA)

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.
5. Certification
This casting alloy corresponds to the standard ISO 22674/Type 4.
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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