Material Data Sheet
for: Pagalinor® 2

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

1. Composition

<table>
<thead>
<tr>
<th>Element</th>
<th>Composition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Au + Pt group-metals</td>
<td>31.41%</td>
</tr>
<tr>
<td>Ag</td>
<td>53.65%</td>
</tr>
<tr>
<td>Pd</td>
<td>18.90%</td>
</tr>
<tr>
<td>Cu</td>
<td>14.29%</td>
</tr>
<tr>
<td>Au</td>
<td>12.50%</td>
</tr>
<tr>
<td>Zn</td>
<td>0.65%</td>
</tr>
<tr>
<td>Ru</td>
<td>0.01%</td>
</tr>
</tbody>
</table>

2. Physical Properties

- Melting range: 900-980°C
- Density: 11.1 g/cm³
- Young's Modulus: 110 GPa
- Colour: white

3. Mechanical Properties

- Condition: as cast, soft, hardened
- Melting range: 700°C/10/H20, 375°C/15/air
- Hardness HV5: 185, 135, 240
- Tensile strength (Rm): 550 MPa, 300 MPa, 340 MPa
- 0.2% Proof stress (Rp 0.2%): 430 MPa, 22%, 25%, 12%
- Elongation: 22%, 25%, 12%

4. Biological tests

- Cytotoxicity test according to ISO 10993-5:
  The cytotoxic effect of the alloy was tested with the extract test.
  (Project, 29, 12.03.1990, 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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