

Material Data Sheet

for: Ptlr20%

1. Composition

Pt group-metals	100.00%
Pt	80.00%
lr	20.00%

2. Physical Properties

Melting range
Density
Young's Modulus
Linear Coeff. of thermal expansion (25-500°C)
Linear Coeff. of thermal expansion (25-600°C)
Colour

3. Mechanical Properties

Condition Hardness HV5 Tensile strength (Rm) 0.2% Proof stress (Rp 0.2%) Elongation

4. Biological Testing

Cytotoxity Test according to ISO 10993-5:

The cytotoxic effect of the alloy was tested with the Extraction Test. (Project 990880C, 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 990881C, BSL Bioservice, DE-82152 Planegg, FRG)

Results:

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

5. Certification

Corrosion testing according to standard showed, that a total of $0.0\mu g/cm^2 \times 7d$ was set free.

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

Cendres+Métaux SA

Sh. Ralbe

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Pel h. Hulword

1820-1850°C 21.8 g/cm³ 180 GPa 9.0 x10⁻⁶ K⁻¹ 9.1 x10⁻⁶ K⁻¹ silverwhite

cold worked

>260

>800 MPa

>780 MPa

>6.5 %

20-50%KV

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