

# Material Data Sheet

## (199) - Fine Platin

### 1. Composition

Pt group-metals	99.95%
Pt	99.95%

### 2. Physical Properties

Melting point	1769°C
Density	21.4 g/cm <sup>3</sup>
Young's Modulus	17 GPa
Colour	grey
Linear Coeff. of thermal expansion (25-500°C)	9.5 x10 <sup>-6</sup> K <sup>-1</sup>
Electrical resistivity (at 20°C)	10.78 μOhmcm

### 3. Mechanical Properties

	soft	cold worked
Hardness HV5	40	50% 75
Tensile strength (Rm)	240 MPa	400 MPa
0.2% Proof stress (Rp 0.2%)	150 MPa	380 MPa
Elongation		5 %

### 4. Certification

Manufacture and delivery are constantly monitored according to the quality management system standard according to ISO 9001.

#### Cendres+ Métaux SA



Dr. Niklaus Baltzer  
Head of Materials Development



Dr. Flavio Campana  
Head of Material Testing