

Technical datasheet

Nickel 201

Commercially pure nickel (99.6%) with good mechanical properties and corrosion resistance in a range of corrosive media. This highly versatile grade is used in a wide variety of applications.

Available products

Product form

Sheet and strip in drums
Rod and wire

Chemical composition (%)

Ni	C
Balance	0.02

Physical properties

Density, g/cm ³	8.89
Thermal conductivity at 20°C, W/m.K	79.2
Coefficient of expansion between 20°C and 100°C ($\times 10^{-6}/^{\circ}\text{C}$)	13.3
Electrical resistivity at 20°C, $\mu\Omega\cdot\text{cm}$	8.5

Mechanical properties – typical room temperature properties annealed condition

Yield strength	<103 MPa
Tensile strength	<430 MPa
Elongation	>50 %

Applications

Electrical engineering
Electronics
Pyrometry
Shunts and precision resistors
Nuclear energy
Oil and gas
Telecommunications
Defence
Aerospace
Currency and medals