

## INCONEL ALLOY 200

# NICKEL ALLOY

HIGH TEMPERATURE RESISTING ALLOY

Inconel Alloy 200 is ANI 200 Commercially pure (99.6%) wrought nickel with good mechanical properties and resistance to a range of corrosive media. Good thermal, electrical and magnetostrictive properties. Used for a variety of processing equipment, particularly to maintain product purity in handling foods, synthetic fibers and alkalies. Ni 201 Commercially pure (99.6%) wrought nickel essentially the same as Nickel 200 but with a lower carbon content to prevent embrittlement by intergranular carbon at temperatures over 600°F (315°C). Lower carbon content also reduces hardness, making Nickel 201 particularly suitable for cold-formed items

### Chemical Properties

C	Mn	S	Si	Ni	Cu	Fe
0.15 Max	0.35 Max	0.01 Max	0.35 Max	99.0 Min	0.25 Max	0.40 Max

### Mechanical Properties

Yield strength	Tensile strength	Elongation
Min 0.2% Mpa	Min Mpa	Min %
105	380	40

### Physical Properties

Density	Elastic Modulus	Mean Coefficient of Thermal			Thermal Conductivity		Specific Heat	Electrical Resistivity
(Kg/m <sup>3</sup> )	(Gpa)	Expansion(μm/m/°C)			(W/m.K)		0-100°C	(nΩ.m)
8.9	207	10.1	14.3	16.7	69	70.5	456	0.09

### Heat Treatment

Solution Annealed @ 1177°C & Rapidly Liquid Quenched

### Equivalent Designation

UNS N02200  
W.Nr. 2.4060

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