



HSM Wire International, Inc

Ph: 330-244-8501 Fax: 330-244-8561

www.hsmwire.com



Alloy 201 - Nickel Alloy

Description: Alloy 201 is commercially pure wrought Nickel and prevents embrittlement by intergranular carbon at elevated temperatures.

Applications: Soap, viscose rayon, vinyl chloride monomer.

Nominal Composition:	C	Mn	Si	Cu	S	Kg	Ni	Fe
	0.02	0.35	0.35	0.25	0.01	0.05	99.0	0.4

Physical and Mechanical Properties

	Metric Units
Density	8.9 gm/cu cm
Specific Heat	440 J/kg K
Electrical Resistivity	8.5 micro ohms cm
Melting Range	1435 - 1445°C
Thermal Expansion (10 ⁻⁶ K)	14.3 (20 - 300°C)
Yield Strength	Rp 0.2%
20°C Temp	80N/mm sq
100°C Temp	70N/mm sq
200°C Temp	65N/mm sq
300°C Temp	60N/mm sq
400°C Temp	55N/mm sq
Tensile Strength	RM
	45N/mm sq
Elongation	A5 min
	40%

*To be used as a guideline only.

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