



HSM Wire International, Inc

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

www.hsmwire.com



Alloy 200 - Nickel Alloy

Description: Alloy 200 is commercially pure wrought Nickel with good mechanical properties over a wide range of temperature and excellent resistance to many corrosives, in particular hydroxides.

Applications: Soap, viscose rayon, vinyl chloride monomer.

Nominal Composition:	C%	Mn%	Si%	Cu%	S%	Fe%	Ni%
	0.15	0.35	0.35	0.25	0.05	0.4	99.0

Physical and Mechanical Properties

	Metric Units
Density	8.9 gm/cu cm
Specific Heat	456 J/kg K
Electrical Resistivity	9.0 micro ohms cm
Curie Temperature	358°C
Melting Range	1435 - 1445°C
Thermal Expansion (10 ⁻⁶ K)	4.3 (20 - 300°C)
Yield Strength	Rp 0.2%
20°C Temp	100N/mm sq
100°C Temp	150N/mm sq
200°C Temp	130N/mm sq
300°C Temp	140N/mm sq
400°C Temp	130N/mm sq
Tensile Strength	RM
	370N/mm sq
Elongation	A5 min
	40%

*To be used as a guideline only.

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