Nickel 200

Nickel 200 is an unalloyed wrought nickel. It offers excellent corrosion resistance, good mechanical, magnetic and magnetostrictive properties and useful thermal and electrical conductivities.
It is suitable for service temperatures up to approx. 315°C. It has gained ASME Approval for Pressure Vessel applications.
Nickel 200 is characterized by:

- excellent corrosion resistance in many alkaline media
- good mechanical properties within a wide range of temperatures
- magnetization decreasing continuously between -273 and 360℃ and showing paramagnetism above the Curie point

Chemical Composition, %

element	Ni	Cu	Fe	C	Mn	Si	S
min.	99.0						
max.		0.25	0.40	0.15	0.35	0.35	0.01

Chemical Composition according to ASTM. Some compositional limits of other specifications may vary slightly.

Designation and standards

National Standards	Material designation	Chemical composition	Forgings	Rod and bar	Plate and sheet	Strip	Wire	Seamless tube
ASTM ASME	UNS N02200		B564 SB564 B366 SB366	B160 SB160	B162 SB162	B162 SB162		B163 SB163 B161 SB161
DIN	2.4066 Ni 99.2	DIN 17740	DIN 17754	DIN 17752	DIN 17750	DIN 17750	DIN 17753	DIN 17751

Density 8.89g/cm^3

Corrosion resistance

- excellent resistance to many corrosive media from acid to alkaline
- extremely high resistance to caustic alkalies up to and including the molten state
- good resistance in acid, alkaline and neutral salt solutions, but severe attack occurs in oxidizing salt solutions

Applications

Typical applications are:

- food production, such as handling of cooling brines, fatty acids and fruit juices – resistance to acid, alkaline and neutral salt solutions and to organic acids
- vessels in which fluorine is generated and reacted with hydrocarbons – resistance to fluorine
- storing and transportation of phenol – immunity from any form of attack ensures absolute product purity

You could send email to sales@huishih.com for more information.