



# 宝鸡元大金属有限公司

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## 镍产品

## NICKEL PRODUCTS

### ◇ Chemical Composition 成分:

Grade 牌号	Chief component 主成分 %	杂质含量 ≤ Impurities max %															
		Ni+Co	Cu	Si	Mn	C	Mg	S	P	Fe	Pb	Bi	As	Sb	Zn	Cd	Sn
N4	99.9	0.015	0.03	0.002	0.01	0.01	0.001	0.001	0.04	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
N6	99.5	0.10	0.10	0.05	0.10	0.10	0.005	0.002	0.10	0.002	0.002	0.002	0.002	0.002	0.007	0.002	0.002

Note 注:

NUS N02201 (ASTM B 162) same as N4 (GB/T 2054). 美标牌号 N02201 等同于国标 N4

NUS N02200 (ASTM B 162) same as N6 (GB/T 2054). 美标牌号 N02200 等同于国标 N6

### ◇ Products Properties 性能:

- 熔点—1453°C  
Melting point—1453°C
- 沸点—2732°C  
Boiling Point—2732°C
- 密度—8.9 g/cm<sup>3</sup>  
Density —8.9g/cm<sup>3</sup>
- 具有耐腐蚀性及耐热性  
Excellent resistance to electrochemical corrosion  
and good resistance to effect of heat
- 无磁性、无毒性、高导电率  
Nonmagnetic, Non-toxic and high electrical conductivity

### ◇ Specification 规格:

Description 产品名称	Diameter 直径 (mm)	Length 长度(mm)
Wire 丝	0.03~3.200	—
Rod 杆	0.800~12.00	50~2000
Bar 棒	12.00~20.00	50~2000
	20.00~30.00	50~1200
	30.00~70.00	50~800
	>70.00	50~600
Tube 管	3.00~300.00	<1300

注: 所有产品均可按照客户要求生产

Note: All the products can be supplied in according to customer's requirement.

## ● PURE NICKEL——Bar/Rod

### 纯镍产品——棒、杆

#### ◇ Range of use (用途):

- 食品加工设备  
Food processing equipment
- 船舶和海洋工程  
Marine and offshore engineering
- 盐生产  
Salt production
- 烧碱处理设备  
Caustic handling equipment
- 制造和氢氧化钠处理，特别是在超过 300° F 的温度  
Manufacture and handling of sodium hydroxide, particularly at temperatures above 300° F
- 反应堆容器，氟产生反应的碳氢化合物  
Reactors and vessels in which fluorine is generated and reacted with hydrocarbons

#### ◇ Nickel bar(rod) Tolerance (公差):

冷加工棒 (杆) Cold-rolling bar (rod)		
直径 Diameter (mm)	允许偏差 Tolerance (mm)	
	I 级	II 级
3~6	±0.03	±0.05
>6~10	±0.04	±0.06
>10~18	±0.05	±0.08
>18~30	±0.06	±0.10
>30~50	±0.09	±0.13
>50~65	±0.12	±0.16

注：公差要求可根据用户需要调整  
Note: Special demands on tolerance available.

热加工棒 (杆) Thermal processing bar (rod)					
直径 Diameter (mm)	允许偏差 Tolerance (mm)				
	挤压 Extrusion		热轧 Hot-rolling		锻造 Forging
	I 级	II 级	+	-	
6~15	±0.60	±0.80	0.60	0.50	±1.00
>15~30	±0.75	±1.00	0.70	0.50	±0.50
>30~50	±1.00	±1.20	1.50	1.00	±2.00
>50~80	±1.20	±1.55	2.00	1.00	±3.00
>80~120	±1.55	±2.00	2.20	1.20	±3.50
>120~160	—	—	—	—	±5.00
>160~200	—	—	—	—	±6.50
>200~254	—	—	—	—	±7.00

注：公差要求可根据用户需要调整  
Note: Special demands on tolerance available.

**● PURE NICKEL — Wire**  
**纯镍产品—— 丝**

◇ **Range of use (用途) :**

- 用于电设备、化工机械  
used in electric apparatus and chemical machinery
- 真空镀膜  
For vacuum coating
- 使阀门的网格，真空阀门内部部件  
For making valves grid, inner components of vacuum valves
- 内部的电子管  
Components insides the electron tubes
- 用于制造铅，支撑线  
For making lead, supporting wire
- 电池生产  
For battery production
- 过滤器的坚实的基础  
Strong base of the filter
- 内部的电子管  
Components insides the electron tubes

◇ **Nickel wire Tolerance (公差):**

直径 Diameter (mm)	直径允许偏差 Tolerance (mm)
0.03	±0.0025
>0.03~0.10	±0.005
>0.10~0.40	±0.006
>0.40~0.80	±0.013
>0.80~1.2	±0.02
>1.2~2.0	±0.03
>2.0~3.2	±0.04
>3.2~4.8	±0.05
>4.8~8.0	±0.06
>8.0~10.0	±0.07

注：公差要求可根据用户需要调整  
 Note: Special demands on tolerance available.



● Nickel Tube  
镍管

◇ Nickel tube Tolerance(公差):

外径 Outside diameter, inch (mm)	外径公差 OD tolerance, inch(mm), +/-	壁厚公差 Permissible variation in wall thickness, %, +/-
<0.095 (2.4)	0.002 (0.05)	10
0.095~0.19 (2.4-4.8)	0.003 (0.08)	10
0.19~0.400(4.8-10)	0.004(0.10)	10
0.400~0.625(10-16)	0.005 (0.13)	15
0.625~1.5(16-38)	0.0075 (0.19)	10
1.5~3(38-76)	0.010(0.25)	10
3~4.2(76-114)	0.015(0.38)	10
4.2~6(114-152)	0.020 (0.51)	12.5
6~6.625 (152-168)	0.025 (0.64)	12.5
6.625~8.625 (168-219)	0.031 (0.79)	12.5

注：公差要求可根据用户需要调整  
Note:Special demands on tolerance available.

