KX INOX

# 温州凯信金属有限公司

## WENZHOU KAIXIN METAL CO.,LTD

# 关于我们
# ABOUT US

温州凯信金属有限公司坐落于东海之滨的蓝天标准房工业基地，距离机场8公里，离温州火车站18公里，地理位置优越，交通便利。自成立以来，公司规模不断扩大、主要生产销售不锈钢无缝管焊管、不锈钢无缝管、卫生管、异型钢制管件、圆钢短管及管道配件，产品畅销国内外，深受客户认可与赞誉。

公司生产设备和检测设备先进，拥有800吨7米长液压成型卷管机、1000吨10米长液压成型卷管机、300吨液压综合成型机、进口自动剪切机、拉丝机等。公司已通过ISO9001：2015质量体系认证，严格执行国家标准GB/T12771-2012。

温州凯信金属有限公司是全球领先的不锈钢管及不锈钢管道配件供应商。凭借本地化综合解决方案，我们致力于为每个人，每个家庭和组织带来优质产品，构建全面互联的智能世界。

凯信端到端的产品、解决方案和服务组合兼具竞争力与安全性。

Wenzhou Kaixin Metal Co.,Ltd is located on the bank of the east china sea Lantian standrad factory base.
There kilometers away from Wenzhou airport 8km,18km away from Wenzhou Railway Station,located in the ground,and convenient transportation.Since its inception,the scale expanding,mainly produce stainless steel seamless pipe,welded pipe,sanitary pipe,shaped steel tubes,round steel shortage pipe and pipe fittings,the products sell well at home and abroad, and are subject to the recognition and praise of customers.
Our company's production equipement ad testing equipement,state-of-the-at,with 800 tons,seven meters long hydraulic molding volume of the machine, 1000 tons,10 meters long hydraulic molding hose reel machine,300 ton hydraulic syndromes machine,the company has passed ISO9001:2015 quality system certification,strict implementation of national GB/T12771- 2012 standard.. imported automatic shearing machine,drawing machine,the company has passed ISO9001:2015 quality system certification,strict implementation of national GB/T12771- 2012 standard.
Wenzhou Kaixin Metal Co.,LTD is a leading global provider of stainless steel pipe and stainless steel pipeline accessories.With integrated solutions across local -we are committed to bringing quality goods to every person,home and organization for a fully connected,intelligent world.
Kaixin's end-to end portfolio of products,solutions and services are both competitive and secure.

# Certificate
# 证书


质量管理体系认证证书

温州凯信金属有限公司

GB/T 19001-2016/ISO 9001:2015

新标认证（上海）有限公司


DNV

MANAGEMENT SYSTEM CERTIFICATE

This is to certify that the management system of
Wenzhou Kaixin Metal Co., Ltd
Lantian No. 6 South Huangshan Road, Longwan District, Wenzhou City, Zhejiang Province, China
and the sites as mentioned in the appendix accompanying this certificate

has been found to conform to the Quality Management System standard:
GB/T 19001-2016 / ISO 9001:2015

This certificate is valid for the following scope:
Export of Stainless Steel Products

## 生产设备
# Production Line

凯信可根据产品标准或客户要求，对钢管做无损测试和有损测试，测试内容包括成分测试, 超声波测试, 磁性测试, 晶间腐蚀测试, 硬度测试, 拉伸测试, 屈服强度, 耐腐蚀性等。

我们检验员还根据产品标准的技术条件和客户要求进行检查成品的内外表面、形状、弯曲度 、端面长度、外径和壁厚，以满足客户的要求。

Kaixin will do NDT/NDE including PMI,UT,RT,MPT,ECT etc,and Destrutive Test including Flattening Test,Hardness Test,Corrosion Test,Flaring Test,Tensile Test etc,the inspection are strictly control by requirements of the standard or The clients.

According to the technical conditiors and requirements of the product standad,we will always check the inner and outersurface of pipe,the shape,bending degree,length,outer diameter and wall thickness one by one in order to meet customers'requirements.

## 1. COMMON AUSTENITIC STAINLESS STEEL SEAMLESS PIPE AND TUBE.
通用奥氏体不锈钢无缝管

**Material:**

304（06Cr19Ni10）,304L（022Cr19Ni10）,304N（06Cr19Ni10N）,321（06Cr18NI11Ti）,321H（07Cr19Ni11Ti),
316（06Cr17Ni12Mo2）,316L（022Cr17Ni12Mo2),316LN（022CrI7Ni12Mo2N),316Ti（06Cn7Ni12Mo2Ti）.
317L（022Cr1Ni13Mo3）.347（06Cr18Ni11Nb),347H（07Cr18Ni11Nb),347HFG,310S（06Cr25Ni20),S30815.

**Specifications:**

Outside Diameter 6-1016m ， Wall Thicknes:1-65mm,Maximum Lengh 18000mm
Special specifications are available as required.

**Executive standard:**

GB/T14975-2012 stainiess steel seamless steel tube

GB/T14976-2012 fluid conveying stainless steel seamless steel tube

GB/T13296-2013 boiler,heat exchanger stainless steel seamless steel pipe

GB5310-2017 high pressure boiler with seamless steel tube.

GB9948-2013 oil cracking seamless steel tube

GB/T12771-2008 fluid conveying stainlesssteel weWed steel pipe.

ASTM A312 Seamless,Welded,and Heavily Cold worked Austenitic Stainless Steel Pipes

ASTM SA213 Seamless Ferritic and Austenitic Alloy-Steel Boiler,Superheater,and Heat-Exchanger Tubes

ASTM SA269:Seamless and Welded Austenitic Stainless steel Tubing for General Service

JSG3463-20062012 boiler and heat exchanger stainless steel pipe.

JSG3459-2012 with stainles s steel pipe

GOST9941-81 cold temperature processing anti-corrosion seamless steel tube（Russian steel pipe standaed)

DIN 2462.1-1981German stainless steel pipe standard

DIN 17456-8599ordinary quality stainless steel seamless steel tube.

DIN 17458-85 stainless steel seamless tube with special qulity requirements.

## 2. SUPER AUSTENITIC STAINLESS STEEL SEAMLESS PIPE AND TUBE.
超级奥氏体不锈钢无缝管

**Specifications:**

Outside Diameter:6～1016m,Wall Thickness:1～65mm,Maximum Length 18000mm
Special specifications are available trough negotiation.

**Material:**

NO8904 (904L),N08367,S30432,S31042.

**Executive standard:**

ASTM A312 Seamless,Welded,and Heavily Cold worked Austenitic Stainess Steel Pipes

ASTM SA213:Seamless Ferritic and Austenitic Alloy-Steel Boiler,Superheater,and Heat-Exchanger Tubes

ASTM SA269:Seamless and Welded Austenitic stainless steel tubing for General Service

ASTM B673.ASTM B674,ASTM B677,ASTM B675,ASTM B676,ASTM B690.

## 3.(SUPER)DUPLEX STEEL SEAMLESS PIPE AND TUBE.
(超级)双相钢无缝管

**Specifications;**
Outside Dameter:6～720m,Wall Thickness 1～65mm,Maximum Length 18000mm
Special specifications are available trough negotiation.

**Material:**
S31803,S32205,S32250,S32750,S32760,S31500,32001,S32003,S32304.

**Executive standard:**
ASTM A789:Seamless And Welded Ferritic/Austenitic Stainless Steel Tubing For General Service
ASTM A790:Seamless And Welded Ferritic/Austenitic Stainlezs Steel Pipe
ASTM A920:Ferritic/Austenitic(Duplex)Stainless Steel Pipe Electric Fusion welded with Addition Of Filler Metal
GB/T21832-2018Welded Austenitic-FerritiC (Duplex)Stainless steel Tubes And Pipes
GB/T 2183-2020 Seamless Austenitic-Ferritic (Duplex)Staniess Steel Tubes And Pipes

## 4.NICKEL ALLOY SEAMLESS TUBE.
镍基合金无缝管

**Specification:**
Outside Diameter:6-457MM,Wall Thicknes 1-45MM,Max Lengt:18000MM

**Material:**
Nickel 200(N02200,2.4066).201(N02201,2.4068) …
Monel:400(N04400,2.4360),K-500(N05500,2.4375)
Inconel:600(N06600,2.4816),601(N06601,2.4851).625(N06625,2.4856).718(N07718,2.4668)
Incoloy:800(N08800,1.4876）.800H（N08810,1.4876）.800HT（N08811.1.4876）825（N08825,24858)
Hastelloy:C-276（N10276，2.4819).
C-22(N06022,2.4602).B-2(N10665.24617).B-3(N10675.24600)
Other nickel alloy material also available

**Executive standard:**
ASTM B163 Seamlees Nickel and Nickel Alloy Condenser and Heat-Exchanger Tubes
ASTM B165 Nickel-Copper Alloy Seamless Pipe and Tube
ASTM B167 Nickel-Chromium-Aluminum Alloys.Nikel-Chromium-Iron Alloys.Nickel-Chromium-Cobalt-Molybdenum
Alloy Nicke-Iron-Chromium-Tungsten Alloy,and Nickel-Chromium-Molybdenum-Copper Alloy
Seamless Pipe and Tube
ASTM B423 Nickel-Iron-Chromium-Molybdenum-Copper Alloy Seamless Pipe and Tube
ASTM B444 Nicke-Chromium-Molybdenum-Niobium Alloys and Nicke-Chrorium-Molybodenum-Silicon Alloy Pipe and Tube
ASTM B622 Seamless Nickel and Nickel-Cobalt Alloy Pipe and Tube
ASTM B668 Iron-Nickel-Chromium-Molybdenum Alloy Seamless Pipe and Tube
ASTM B677 Nickel-Iron-Chromium-Molybdenum,Iron-Nickel-Chromium-Molybdenum-Copper,
and Nickel-Iron-Chromium-Molybdenum-Nitrogen Seamless Pipe and Tube
ASTMB690 Iron-Nickel-Chromium-Molybdenum Alloy Seamless Pipe and Tube
ASTM B729 Seamless Nickel-Iron-Chromium-Molybdenum-Copper Nickel Alloy Pipe and Tube
ASTM B829 Standard specification for general requiremerts for nickel and nickel alloys seamless pipe and tube

## COMMON AUSTENITIC STAINLESS STEEL CHEMICAL COMPOSITION.

### 奥氏体不锈钢化学成分表

| | ASTM A213 | Grade | Chemical composition(mass fraction)% | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Uniform digital code | | C | Si | Mn | P | S | Ni | Cr | Mo | Cu | N | other |
| 1 | S30210 | 12Cr18Ni9 | 0. 15 | 1. 00 | 2. 00 | 0. 045 | 0. 030 | 8. 00-10. 00 | 17. 00-19. 00 | — | — | 0. 10 | — |
| 2 | S30408 | 06Cr19Ni10 | 0. 08 | 1. 00 | 2. 00 | 0. 045 | 0. 030 | 8. 00-11. 00 | 18. 00-20. 00 | — | — | — | — |
| 3 | S30403 | 022Cr19Ni10 | 0. 035 | 1. 00 | 2. 00 | 0. 045 | 0. 030 | 8. 00-12. 00 | 18. 00-20. 00 | — | — | — | — |
| 4 | S30458 | 06Cr19Ni10N | 0. 08 | 1. 00 | 2. 00 | 0. 045 | 0. 030 | 8. 00-11. 00 | 18. 00-20. 00 | — | — | 0. 10-0. 16 | — |
| 5 | S30478 | 06Cr19Ni9NbN | 0. 08 | 1. 00 | 2. 50 | 0. 045 | 0. 030 | 7. 50-10. 50 | 18. 00-20. 00 | — | — | 0. 15-0. 30 | Nb0. 15 |
| 6 | S30453 | 022Cr19Ni10N | 0. 03 | 1. 00 | 2. 00 | 0. 045 | 0. 030 | 8. 00-11. 00 | 18. 00-20. 00 | — | — | 0. 10-0. 16 | — |
| 7 | S30908 | 06Cr23Ni13 | 0. 08 | 1. 00 | 2. 00 | 0. 045 | 0. 030 | 12. 00-15. 00 | 22. 00-24. 00 | — | — | — | — |
| 8 | S31008 | 06Cr25Ni20 | 0. 08 | 1. 50 | 2. 00 | 0. 045 | 0. 030 | 19. 00-22. 00 | 24. 00-26. 00 | — | — | — | — |
| 9 | S31608 | 06Cr17Ni12Mo2 | 008 | 1. 00 | 2. 00 | 0. 045 | 0. 030 | 10. 00-14. 00 | 16. 00-18. 00 | 2. 00-3. 00 | — | — | — |
| 10 | S31603 | 022Cr17Ni12Mo2 | 0. 035 | 1. 00 | 2. 00 | 0. 045 | 0. 030 | 10. 00-14. 00 | 16. 00-18. 00 | 2. 00-3. 00 | — | — | — |
| 11 | S31609 | 07Cr17Ni12Mo2 | 0. 04-0. 10 | 1. 00 | 2. 00 | 0. 045 | 0. 030 | 11. 00-14. 00 | 16. 00-18. 00 | 2. 00-3. 00 | — | — | — |
| 12 | S31668 | 06Cr17Ni12Mo2Ti | 0. 08 | 0. 75 | 2. 00 | 0. 045 | 0. 030 | 10. 00-14. 00 | 16. 00-18. 00 | 2. 00-3. 00 | — | — | Ti50-0. 70 |
| 13 | S31658 | 06Cr17Ni12Mo2N | 0. 08 | 1. 00 | 2. 00 | 0. 045 | 0. 030 | 10. 00-13. 00 | 16. 00-18. 00 | 2. 00-3. 00 | — | 0. 10-0. 16 | — |
| 14 | S31653 | 022Cr17Ni12Mo2N | 0. 035 | 1. 00 | 2. 00 | 0. 045 | 0. 030 | 10. 00-13. 00 | 16. 00-18. 00 | 2. 00-3. 00 | — | 0. 10-0. 16 | — |
| 15 | S31688 | 06Cr18Ni12Mo2Cu2 | 0. 08 | 1. 00 | 2. 00 | 0. 045 | 0. 030 | 10. 00-14. 00 | 17. 00-19. 00 | 1. 20-2. 75 | 1. 00-2. 50 | — | — |
| 16 | S31683 | 022Cr18Ni14Mo2Cu2 | 0. 08 | 1. 00 | 2. 00 | 0. 045 | 0. 030 | 12. 00-16. 00 | 17. 00-19. 00 | 1. 20-2. 75 | 1. 00-2. 50 | — | — |
| 17 | S31708 | 06Cr19Ni13Mo3 | 0. 08 | 1. 00 | 2. 00 | 0. 045 | 0. 030 | 11. 00-15. 00 | 18. 00-20. 00 | 3. 00-4. 00 | — | — | — |
| 18 | S31703 | 022Cr19Ni13M03 | 0. 035 | 1. 00 | 2. 00 | 0. 045 | 0. 030 | 11. 00-15. 00 | 18. 00-20. 00 | 3. 00-4. 00 | — | — | — |
| 19 | S32168 | 06Cr18Ni11Ti | 0. 08 | 1. 00 | 2. 00 | 0. 045 | 0. 030 | 9. 00-12. 00 | 17. 00-19. 00 | — | — | — | Ti50-0. 70 |
| 20 | S32169 | 07Cr19Ni11Ti | 0. 04-0. 10 | 1. 00 | 2. 00 | 0. 030 | 0. 030 | 9. 00-12. 00 | 17. 00-19. 00 | — | — | — | Ti40-0. 60 |
| 21 | S34778 | 06Cr18Ni11Nb | 0. 08 | 1. 00 | 2. 00 | 0. 045 | 0. 030 | 9. 00-13. 00 | 17. 00-19. 00 | — | — | — | Nb10C-1. 10 |
| 22 | S34779 | 07Cr18Ni11Nb | 0. 04-0. 10 | 1. 00 | 2. 00 | 0. 045 | 0. 030 | 9. 00-13. 00 | 17. 00-19. 00 | — | — | — | Nb8C-1. 10 |

## SUPER AUSTENITIC STAINLESS STEEL CHEMICAL COMPOSITION.

### 超级奥氏体不锈钢化学成分表

| Grade | C | Mn | P | S | Si | Cr | Ni | Mo | Ti | Nb | Ta | N | V | CU | Ce | B | Al |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N08904 | 0. 020 | 2. 0 | 0. 040 | 0. 030 | 1. 00 | 19. 0-23. 0 | 23. 0-28. 0 | 4. 0-5. 0 | — | — | — | 0. 10 | — | 1. 0-2. 0 | — | — | — |
| N08367 | 0. 030 | 2. 0 | 0. 040 | 0. 030 | 1. 00 | 20. 0-22. 0 | 23. 5-25. 5 | 6. 0-7. 0 | — | — | — | 0. 18-0. 25 | — | 0. 75 | — | — | — |
| S31254 | 0. 020 | 1. 0 | 0. 030 | 0. 010 | 0. 8 | 19. 5-20. 5 | 17. 5-18. 5 | 6. 0-6. 5 | — | — | — | 0. 18-0. 22 | — | 0. 5-1. 0 | — | — | — |
| S30432 | 0. 07-0. 13 | 1. 0 | 0. 040 | 0. 010 | 0. 30 | 17. 0-19. 0 | 7. 5-10. 5 | — | — | 0. 3-0. 6 | — | 0. 05-0. 12 | — | 2. 5-3. 5 | — | 0. 001-0. 01 | 0. 003-0. 03 |
| S31042 | 0. 04-010 | 2. 0 | 0. 045 | 0. 030 | 1. 00 | 24. 0-26. 0 | 19. 0-22. 0 | — | — | 0. 2-0. 6 | — | 0. 15-0. 35 | — | — | — | — | — |

# COMPARISON TABLE FOR CHINESE AND FOREIGN STAINLESS STEEL GRADES

## 中外不锈钢牌号对照表

| No. | GB | | | ASTM/UNS | JIS | IS0 | DN EN | GOST |
|---|---|---|---|---|---|---|---|---|
| | ISC | New | Old | | | | | |
| 1 | S30210 | 12Cr18Ni9 | 1Cr18Ni9 | S30200,302 | SUS302 | X10CrNi18-8 | X10CrNi18-8,1.4310 | 12X18H9 |
| 2 | S30408 | 06Cr19Ni10 | 0Cr18Ni9 | S30400,304 | SUS304 | X5CrNi18-10 | X5CrNi18-10,4301 | 08X18H10 |
| 3 | S30403 | 022Cr19Ni10 | 00Cr19Ni10 | S30403,304L | SUS304L | X2CrNi19-11 | X2CrNi19-11,1.4306 | 03XI8H10 |
| 4 | S30458 | 06Cr19Ni10N | 0Cr19Ni9N | S30451,304N | SUS304N1 | X5CrNiN19-9 | X5CrNiN19-9,1.4315 | — |
| 5 | S30453 | 022Cr19NiI0N | 00Cr19Ni10N | S30453,304LN | SUS304LN | X2CrNiN18-9 | X2CrNiN18-10,1.4311 | — |
| 6 | S30908 | 06Cr23Ni13 | 0Cr23Ni13 | S30908,309S | SUS309S | X12CrNi23-13 | X12CrNi23-13-3,1.4833 | 10X23H13 |
| 7 | S31008 | 06Cr25Ni20 | 0Cr25Ni20 | S31008,310S | SUS310S | X8CrNi25-2 | X8CrNi25-21，1.4845 | 10X23H18 |
| 8 | S31608 | 06Cr17Ni12Mo2 | 0Cr17Ni12Mo2 | S31600,316 | SUS316 | X5CrNiMo17-12-2 | X5CrNiMo17-12-2,1.4401 | 03X17H13M2 |
| 9 | S31603 | 022Cr17Ni12Mo2 | 00Cr17Ni14Mo2 | S31603,316L | SUS316L | X2CrNiMo17-12-2 | X2CrNiMo17-12-2,1.4404 | 03X17H14M2 |
| 10 | S31609 | 07Cr17Ni12Mo2 | 1Cr17Ni12Mo2 | S31609,316H | — | — | X3CrNiMo17-13-3,1.4436 | — |
| 11 | S31668 | 06Cr17Ni12Mo2Ti | 0Cr18Ni12Mo3Ti | S31635,316Ti | SUS316Ti | X6CrNiMoTi17-12-2 | X6CrNiMoTi17-12-2 | 08X17H13M2T |
| 12 | S31658 | 06Cr17Ni12Mo2N | 0Cr17Ni12Mo2N | S31651,316N | SUS316N | X6CrNiMoN17-12-3 | X6CrNiMoN17-12-3.1.4495 | — |
| 13 | S31653 | 022Cr17Ni12Mo2N | 00Cr17Ni13Mo2N | S31653,316LN | SUS316LN | X2CrNiMoN17-12-3 | X2CrNiMoN17-12-3,1.4429 | — |
| 14 | S31688 | 06Cr18Ni12MO2Cu2 | 06Cr18Ni12MO2Cu2 | — | SUS316J1 | — | — | — |
| 15 | S31683 | 022Cr18Ni14MO2Cu2 | 00Cr18Ni14MO2Cu2 | — | SUS316J1L | — | — | — |
| 16 | S31708 | 06Cr19Ni13Mo3 | 0Cr19Ni13Mo3 | S31700,317 | SUS317 | — | X5CrNiMo17-13,1.4449 | — |
| 17 | S31703 | 022Cr19Ni13MO3 | 00Cr19Ni13Mo3 | S31703,317L | SUS317L | X2CrNiMo19-14-4 | X2CrNiMo18-15-4,1.4438 | 03X16H15M3 |
| 18 | S32168 | 06Cr18Ni11Ti | 0Cr18Ni10Ti | S32100,321 | SUS321 | X6CrNiTi18-10 | X6CrNiTi18-10,1.4541 | 08XI8H10T |
| 19 | S32169 | 07Cr19Ni11Ti | 1Cr18Ni11Ti | S32109,321H | — | X7CrNiTi18-10 | X7CrNiTi18-10，1.4878 | 12X18H10T |
| 20 | S34778 | 06Cr18Ni11Nb | 06Cr18Ni11Nb | S34700,347 | SUS347 | X6CrNiNb18-10 | X6CrNiNb18-10，1.4550 | 08018H125 |
| 21 | S31053 | 022Cr25Ni22MO2N | — | 310MoLN, S31050 | — | X1CrNiMoN25-22-2 | 1.4466 | — |
| 22 | S38340 | 16Cr25Ni20Si2 | — | S31400 | — | X15CrNiSi25-21 | X15CrNiSi25--20,14841 | 20X25H20C2 |
| 23 | S31782 | 015Cr21Ni26Mo5Cu2 | — | 904l,N08904 | SUS 890L | X1NiCrMoCu25-20-5 | X1NiCrMoCu25-20-5, 1.4539 | — |
| 24 | S22253 | 022Cr22Ni5Mo3N | — | S31803 | SUS 329J3L | X2CrNiMoN22-5-3 | X2CrNiMoN22-5-3,1.44462 | |
| 25 | S25073 | 022Cr22Ni7Mo4N | — | 2507,S32750 | | X2CrNiMoN25-7-4 | X2CrNiMoN25-7-4,1.4410 | — |
| 26 | S27603 | 022Cr22Ni7Mo4WCuN | — | S32760 | SJS329J2L | X2CrNiMoCuWN25-7-4 | X2CrNiMoCuWN25-7-4,1.4501 | — |
| 27 | S23043 | 022Cr23Ni4MoCuN | — | 2304 ,S32304 | — | X2CrNiN23-4 | X2CrNiN23-4,1.4362 | 03KH23N6 |
| 28 | H1O276 | NS 3304 | — | Inconel C-276,N10276 | | SNi6276 | NiMo16Cr15W,2.4819 | — |
| 29 | 20 | — | — | — | S20C | C25 | C22,1.0402 | 20 |
| 30 | N04400 | NS 6400 | Ni68Cu28Fe | Monel400, N04400 | — | — | 2.4360 | — |
| 31 | N06600 | NS 3102 | — | Inconel 600, N06600 | NCF 600 | — | NiCr15Fe,2.4816 | — |
| 32 | N06625 | NS 3306 | — | Inconel 625, N06625 | NCF 625 | — | NiCr22Mo9Nb,2.4856 | — |
| 33 | N08825 | NS 1402 | — | Incoloy 825, N08825 | NCF 825 | — | NiCr21Mo,2.4858 | — |
| 34 | N08800 | NS 1101 | — | Incoloy 800, N08800 | NCF 800 | — | X10NiCrAlTi32-20,1.4876 | — |

## ANSIB36.10、B36.19M 外径尺寸和壁厚表(美标)

**More info visit www.wzinox.com**

| 公称通径 Norminal Pipe Size | | 外径 Outside Diameter | 公称壁厚 Norminal Wall Thickness | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| NPS inch | DN | (ODmm) | Sch5s | Sch10s | Sch10 | Sch20 | Sch30 | Sch40s | STD | Sch40 |
| 1/8 | 6 | 10.3 | — | 1.24 | — | — | — | 1.73 | 1.73 | 1.73 |
| 1/4 | 8 | 13.7 | — | 1.65 | — | — | — | 2.24 | 2.24 | 2.24 |
| 3/8 | 10 | 17.1 | — | 1.65 | — | — | — | 2.31 | 2.31 | 2.31 |
| 1/2 | 15 | 21.3 | 1.65 | 2.11 | — | — | — | 2.77 | 2.77 | 2.77 |
| 3/4 | 20 | 26.7 | 1.65 | 2.11 | — | — | — | 2.87 | 2.87 | 2.87 |
| 1 | 25 | 33.4 | 1.65 | 2.77 | — | — | — | 3.38 | 3.38 | 3.38 |
| 1-1/4 | 32 | 42.2 | 1.65 | 2.77 | — | — | — | 3.56 | 3.56 | 3.56 |
| 1-1/2 | 40 | 48.3 | 1.65 | 2.77 | — | — | — | 3.68 | 3.68 | 3.68 |
| 2 | 50 | 60.3 | 1.65 | 2.77 | — | — | — | 3.91 | 3.91 | 3.91 |
| 2-1/2 | 65 | 73.0 | 2.11 | 3.05 | — | — | — | 5.16 | 5.35 | 5.16 |
| 3 | 80 | 88.9 | 2.11 | 3.05 | — | — | — | 5.49 | 5.49 | 5.49 |
| 3-1/2 | 90 | 101.6 | 2.11 | 3.05 | — | — | — | 5.74 | 5.74 | 5.74 |
| 4 | 100 | 114.3 | 2:11 | 3.05 | — | — | — | 6.02 | 6.02 | 6.02 |
| 5 | 125 | 141.3 | 2.77 | 3.40 | — | — | — | 6.55 | 6.55 | 6.55 |
| 6 | 150 | 168.3 | 2.77 | 3.40 | — | — | — | 7.11 | 7.11 | 7.71 |
| 8 | 200 | 219.1 | 2.77 | 3.76 | — | 6.35 | 7.04 | 8.78 | 8.78 | 8.18 |
| 10 | 250 | 273.1 | 3.40 | 4.19 | — | 6.35 | 7.80 | 9.27 | 9.27 | 9.27 |
| 12 | 300 | 323.9 | 3.96 | 4.57 | — | 6.35 | 8.38 | 9.53 | 9.53 | 10.31 |
| 14 | 350 | 355.6 | 3.96 | 4.78 | 6.35 | 7.92 | 9.53 | — | 9.53 | 11.13 |
| 16 | 400 | 406.4 | 4.19 | 4.78 | 6.35 | 7.92 | 9.53 | — | 9.53 | 12.70 |
| 18 | 450 | 457.2 | 4.19 | 4.78 | 6.35 | 7.92 | 11.13 | — | 9.53 | 14.27 |
| 20 | 500 | 508.0 | 4.78 | 5.54 | 6.35 | 9.53 | 12.70 | — | 9.53 | 15.09 |
| 22 | — | 558.8 | 4.78 | 5.54 | 6.35 | 9.53 | 12.70 | — | 9.53 | — |
| 24 | 600 | 609.6 | 5.54 | 6.35 | 6.35 | 9.53 | 14.27 | — | 9.53 | 17.48 |
| 26 | — | 660.4 | — | — | 7.92 | 12.70 | — | — | 9.53 | — |
| 28 | 700 | 711.2 | — | — | 7.92 | 12.70 | 15.88 | — | 9.53 | — |
| 30 | — | 762.0 | 6.35 | 7.92 | 7.92 | 12.70 | 15.88 | — | 9.53 | — |
| 32 | 800 | 812.8 | — | — | 7.92 | 12.70 | 15.88 | — | 9.53 | 17.48 |
| 34 | — | 863.6 | — | — | 7.92 | 12.70 | 15.88 | — | 9.53 | 17.48 |
| 36 | 900 | 914.4 | — | — | 7.92 | 12.70 | 15.88 | — | 9.53 | 17.48 |
| 38 | — | 965.2 | — | — | — | — | — | — | 9.53 | — |
| 40 | 1000 | 1016.0 | — | — | — | — | — | — | 9.53 | — |
| 42 | — | 1066.8 | — | — | — | — | — | — | 9.53 | — |
| 44 | 1100 | 1117.6 | — | — | — | — | — | — | 9.53 | — |
| 46 | — | 1168.4 | — | — | — | — | — | — | 9.53 | — |
| 48 | 1200 | 1219.2 | — | — | — | — | — | — | 9.53 | — |

## ANSIB36.10、B36.19M外径尺寸和壁厚表(美标)

**More info visit www.wzinox.com**

| 公称通径 Norminal Pipe Size | | 外径 Outside Diameter | 公称壁厚 Norminal Wall Thickness | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NPS inch | DN | (ODmm) | Sch60 | Sch80s | XS | Sch80 | Sch100 | Sch120 | Sch140 | S50H160 | XXS |
| 1/8 | 6 | 10.3 | — | 2.41 | 2.41 | 2.41 | — | — | — | — | — |
| 1/4 | 8 | 13.7 | — | 3.02 | 3.02 | 3.02 | — | — | — | — | — |
| 3/8 | 10 | 17.1 | — | 3.20 | 3.20 | 3.20 | — | — | — | — | — |
| 1/2 | 15 | 21.3 | — | 3.73 | 3.73 | 3.73 | — | — | — | 4.78 | 7.47 |
| 3/4 | 20 | 26.7 | — | 3.91 | 3.91 | 3.91 | — | — | — | 5.56 | 7.82 |
| 1 | 25 | 33.4 | — | 4.55 | 4.55 | 4.55 | — | — | — | 6.35 | 9.09 |
| 1-1/4 | 32 | 42.2 | — | 4.85 | 4.85 | 4.85 | — | — | — | 6.35 | 9.70 |
| 1-1/2 | 40 | 48.3 | — | 5.08 | 5.08 | 5.08 | — | — | — | 7.14 | 10.15 |
| 2 | 50 | 60.3 | — | 5.54 | 5.54 | 5.54 | — | — | — | 8.74 | 11.07 |
| 2-1/2 | 65 | 73.0 | — | 7.01 | 7.01 | 7.01 | — | — | — | 9.53 | 14.02 |
| 3 | 80 | 88.9 | — | 7.62 | 7.62 | 7.62 | — | — | — | 11.13 | 15.24 |
| 3-1/2 | 90 | 101.6 | — | 8.08 | 8.08 | 8.08 | — | — | — | — | — |
| 4 | 100 | 114.3 | — | 8.56 | 8.56 | 8.56 | — | 11.13 | — | 13.49 | 17.2 |
| 5 | 125 | 141.3 | — | 9.53 | 9.53 | 9.53 | — | 12.70 | — | 15.88 | 19.05 |
| 6 | 150 | 168.3 | — | 10.97 | 10.97 | 10.97 | — | 14.27 | — | 18.26 | 21.95 |
| 8 | 200 | 219.1 | 10.31 | 12.70 | 12.70 | 12.70 | 15.09 | 18.26 | 20.62 | 23.01 | 22.23 |
| 10 | 250 | 273.1 | 12.70 | 12.70 | 12.70 | 15.09 | 18.26 | 21.44 | 25.40 | 28.58 | 25.40 |
| 12 | 300 | 323.9 | 14.27 | 12.70 | 12.70 | 17.48 | 21.44 | 25.40 | 28.58 | 33.32 | 25.40 |
| 14 | 350 | 355.6 | 15.09 | — | 12.70 | 19.05 | 23.83 | 27.79 | 31.75 | 35.71 | — |
| 16 | 400 | 406.4 | 16.66 | — | 12.70 | 21.44 | 26.19 | 30.96 | 36.53 | 40.49 | — |
| 18 | 450 | 457.2 | 19.05 | — | 12.70 | 23.83 | 29.36 | 34.96 | 39.67 | 45.24 | — |
| 20 | 500 | 508.0 | 20.62 | — | 12.70 | 26.19 | 32.54 | 38.10 | 44.45 | 50.01 | — |
| 22 | — | 558.8 | 22.23 | — | 12.70 | 28.58 | 34.93 | 41.28 | 47.63 | 53.98 | — |
| 24 | 600 | 609.6 | 24.61 | — | 12.70 | 30.96 | 38.89 | 46.02 | 52.37 | 59.54 | — |
| 26 | — | 660.4 | — | — | 12.70 | — | — | — | — | — | — |
| 28 | 700 | 711.2 | — | — | 12.70 | — | — | — | — | — | — |
| 30 | — | 762.0 | — | — | 12.70 | — | — | — | — | — | — |
| 32 | 800 | 812.8 | — | — | 12.70 | — | — | — | — | — | — |
| 34 | — | 863.6 | — | — | 12.70 | — | — | — | — | — | — |
| 36 | 900 | 914.4 | — | — | 12.70 | — | — | — | — | — | — |
| 38 | — | 965.2 | — | — | 12.70 | — | — | — | — | — | — |
| 40 | 1000 | 1016.0 | — | — | 12.70 | — | — | — | — | — | — |
| 42 | — | 1066.8 | — | — | 12.70 | — | — | — | — | — | — |
| 44 | 1100 | 1117.6 | — | — | 12.70 | — | — | — | — | — | — |
| 46 | — | 1168.4 | — | — | 12.70 | — | — | — | — | — | — |
| 48 | 1200 | 1219.2 | — | — | 12.70 | — | — | — | — | — | — |

## COMPRISION OF DFFERENT STANDARD TOLERANCE

## 各类标准的公差对照表

| SIZE MM / SPECIFICATION | OD(D) SIZE | PERMISSIBLE VARIATION | THICKNESS(S) SIZE | PERMISSIBLE VARIATION | LENGTH(L) SIZE | PERMISSIBLE VARIATION |
|---|---|---|---|---|---|---|
| ASTM A213 | D<25.4 | ±0.10 | D=38.1 | +20%/-0 | D<50.8 | +3.0/-0 |
| | 25.4-38.1 | ±0.15 | | | | |
| | 38.1-50.8 | ±0.20 | D≥38.1 | +22%/-0 | | |
| | 50.8-63.5 | ±0.25 | | | | |
| | 63.5-76.2 | ±0.30 | | | D≥50.8 | +5.0/-0 |
| | 76.2-101.6 | ±0.38 | | | | |
| | 101.6-190.4 | +0.38/-0.64 | | | | |
| | 190.5-228.6 | +0.38/-1.14 | | | | |
| ASTM A269 | D<12.7 | ±0.13 | | ±15% | | +3.2/0 |
| | 12.7-38.1 | ±0.13 | | ±10% | | +3.2/0 |
| | 38.1-88.9 | ±0.25 | | | | +4.8/0 |
| | 88.9-139.7 | ±0.38 | | | | +4.8/0 |
| | 139.7-203.2 | ±0.76 | | | | +4.8/0 |
| | 203.3-304.8 | ±1.01 | | | | +4.8/0 |
| | 203.2-355.6 | ±1.26 | | | | +4.8/0 |
| ASTM A312 | D<48.26 | +0.40-0.80 | | Norminal Thickness ±12.5% | | +6.0/-0 |
| | 48.26-114.3 | ±0.80 | | | | |
| | 114.3-219.08 | +1.6/-0.8 | | | | |
| | 219.08-457.2 | +2.4/-0.8 | | | | |
| | 457.2-660.4 | +3.2/-0.8 | | | | |
| | 660.4-836.6 | +4.0/-0.8 | | | | |
| | D>836.6 | +4.8/-0.8 | | | | |
| A270 | D<25 | ±0.13 | For weld pipe all size | ±12.5% | | +3.0/0 |
| | 25-50 | ±0.20 | | | | |
| | 50-75 | ±0.25 | | | | |
| | 75-100 | ±0.38 | For CD SMLS pipe D≤38.1 | +20%/0 | | +5.0/0 |
| | 100-140 | ±0.38 | | | | |
| | 140-200 | ±0.75 | For CD SMLS pipe D>38.1 | +22%/0 | | |
| | 200-300 | ±1.25 | | | | |
| A790 | 10.3≤D≤48.3 | +0.40/-08 | 10.3≤D≤73.0 | +20%/-12.5% | | +6.0/0 |
| | 48.3<D≤114.3 | +0.80/-0.8 | 88.9≤D<457.0 t/D≤5% | +22.5%-12.5% | | |
| | 114.3<D≤219.1 | +1.60/-0.8 | 88.9≤D≤457.0 t/D>5% | +15.0%/-12.5% | | |
| | 279.1<D≤457.0 | +2.40/-0.8 | | | | |
| A249 | D<25.4 | ±0.10 | | 10%/-0 | | +3.0/-0 |
| | 25.4-38.1 | ±0.15 | | | | |
| | 38.1-50.8 | ±0.20 | | | | |
| | 50.8-63.5 | ±0.25 | | | | +5.0/-0 |
| | 63.5-76.2 | ±0.30 | | | | |
| | 76.2-101.6 | ±0.38 | | | | |
| | 101.6-190.5 | +0.38/-0.64 | | | | |
| | 190.5-228.3 | 0.38/-1.14 | | | | |

## COMPRISION OF DIFFERENT STANDARD TOLERANCE
## 各类标准的公差对照表

| SIZE/MM / SPECIFICATION | OD(D) SIZE | PERMISSIBLE VARIATION | | THICKNESS(S) SIZE | PERMISSIBLE VARIATION | | LENGTH(L) SIZE | PERMSSBLE VAPIATON | |
|---|---|---|---|---|---|---|---|---|---|
| | | Common | High | | | | | Common | High |
| JIS G3459 | D<30 | ±0.3 | | S<2 | ±0.2 | | | | |
| | D>30 | ±1% | | S>2 | ±10% | | | | |
| JIS G3463 | D<40 | ±0.25 | | D<40,S<2<br>Ds40,S>2 | +4.0/-0<br>+22%/-0 | | D≤50,L≤7 | +7/-0 | |
| | 40-50 | | | D>40 | +22%/-0 | | D≤50,L>7 | each 3m increase in length, add 3m on above tolerance, max to 15mm | |
| | 50-60 | | | | | | | | |
| | 60-80 | ±0.30 | | | | | | | |
| | 80-100 | +0.40 | | | | | D>50,L<7 | +10/-0 | |
| | 100-120 | +0.4/-0.6 | | | | | | | |
| | 120-160 | +0.4/0.8 | | | | | D>50,L>7 | same as D≤50,L>7 | |
| | 160-200 | +0.4/-1.2 | | | | | | | |
| | D>200 | +0.4/-1.6 | | | | | | | |
| GB/T 14975-2002 | 10-30 | ±0.3 | ±0.2 | S≤3<br>S>3 | ±14%S<br>12.5%-10%S | 12.5%-10%S | L1 level | 0-20 | |
| | 30-50 | ±0.4 | ±0.3 | | | | L2 level | 0-10 | |
| | D>50 | ±0.9%D | ±0.8%D | | | | L3 level | 0-5 | |
| GB/T 14976-2012 | 6-10 | ±0.2 | ±0.15 | S≤3<br>S>3 | ±12%S<br>12.5%-10%S | ±10%S<br>±10%S | | +22%S/0 | +22%S/0 |
| | 10-30 | ±0.3 | ±0.2 | | | | | | |
| | 30-50 | ±0.4 | ±03 | | | | | | |
| | 50-219 | ±0.85%D | ±0.75%D | | | | | | |
| | D>219 | ±0.9%D | ±0.8%D | | | | | | |
| GB 13296-2013 | D≤25 | ±0.1 | | D≤38<br>D>38 | ±10%S<br>±11%S | | | If cut-to-length +10/0 | |
| | 25-40 | ±0.15 | | | | | | | |
| | 40-50 | ±0.2 | | | | | | | |
| | 50-65 | ±0.25 | | | | | | | |
| | 65-75 | ±0.30 | | | | | | | |
| | 75-100 | ±0.38 | | | | | | | |
| | 100=159 | +0.38/-0.64 | | | | | | | |
| | D>159 | ±0.5%D | | | | | | | |
| DIN17456<br>DIN17458 | D2 class | ±10%min<br>±0.5mm | | T3 class | ±10%min<br>±0.2mm | | D≤40,L<1M<br>D≤40,L1-2M<br>D≤40.L2-3M<br>D≤40.L3-4M<br>D≤40,L4-8M | +1/-0<br>+2/-0<br>+3/-0<br>+4/-0<br>+5/-0 | |
| | D3 class<br>D4 class | h special caseS<br>±0.75%min, ±0.3mm<br>±05%min, ±0.1mm | | T4 class | In special cases<br>±7.5%min<br>±0.15mm | | 40<D<168,L≤6M<br>40<D<168,L>6M<br>D>168 | +5/-0<br>+10/-0<br>+10/-0 | |
| ASTM A511-04<br>COLD-FINISHED | D<12.7 | ±0.13 | | | ±15% | | | +3.2/-0 | |
| | 12.7-38.1 | | | | | | | | |
| | 38.1-88.91 | ±0.25 | | | ±10% | | | +4.8/-0 | |
| | 88.91-139.7 | ±038 | | | | | | | |
| | 139.7-203.2 | ±0.76 | | | | | | | |
| | 203.2-219.8 | ±1.14 | | | | | | | |
| | 219.8-323.85 | ±1.57 | | | | | | | |
| ASTM A511-04<br>HOT-FINISHED | D≤76.2 | ±0.58 | | S≤2.77 | ±16.5% | | | +4.76/-0 | |
| | | | | 2.77<S≤4.37 | ±15% | | | | |
| | | | | 4.37<S<5.16 | ±14% | | | | |
| | | | | S>5.16 | ±12.5% | | | | |
| | 76.2-139.7 | ±0.79 | | S≤2.77 | ±16.5% | | | | |
| | | | | 2.77<S≤4.37 | ±15% | | | | |
| | | | | 4.37<S<5.16 | ±14% | | | | |
| | | | | S>5.16 | ±12.5% | | | | |
| | 139.7-203.2 | ±1.19 | | 4.37<S<5.16 | ±14% | | | | |
| | | | | S>5.16 | ±125% | | | | |

## TEST ITEMS OF COMMON PRODUCT STANDARDS.
## 常见产品标准的检测需求

| Standard | chemisty | stretch | Impact test | | flatten | Spin over | curve | hardness | Corrosion test | | Metallographic examination | | | ET | UT | HT | size | facade | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | -196 | Termpe-rature | | | | | intergranular | Point corrosion | Indussion | Grain size | Ferr-olites | | | | | | |
| GB/T 14976-2012 | √ | √ | × | × | × | × | × | × | √ | × | × | × | × | × | × | √ | √ | √ | Ht can replaced by ET or UT |
| GB 13296-2013 | √ | √ | × | × | √ | √ | × | × | √ | × | × | × | × | × | √ | × | √ | √ | Ht can replaced by ET |
| GB 310-2008 | √ | √ | × | √ | √ | × | √ | √ | × | × | √ | √ | × | × | √ | × | √ | √ | |
| GB 9948-2013 | √ | √ | × | √ | √ | √ | × | √ | √ | × | × | × | × | × | √ | × | √ | √ | Ht can replaced by ET or MFL |
| ASTMA32 | √ | √ | × | × | √ | × | × | × | × | × | × | × | × | × | × | × | √ | √ | Ht can replaced by ET or UT |
| ASTMA213 | √ | √ | × | × | √ | √ | × | √ | × | × | × | √ | × | × | √ | × | √ | √ | Ht can replaced by ET |
| ASTMA269 | √ | √ | × | × | √ | √ | × | √ | × | × | × | × | × | × | × | × | √ | √ | Ht can replaced by ET or UT |
| JISG3459 | √ | √ | × | × | √ | × | × | × | × | × | × | √ | × | × | × | × | √ | √ | Ht can replaced by ET or UT |
| JISG3463 | √ | √ | × | × | √ | √ | × | × | × | × | × | √ | × | × | × | × | √ | √ | Ht can replaced by ET or UT |
| DN 17456 | √ | √ | × | × | × | × | × | × | × | × | × | × | × | × | × | × | √ | √ | |
| DN 17458 | √ | √ | × | × | √ | √ | × | × | × | × | × | × | × | × | × | √ | √ | √ | Flattening or flaring |
| GB/T 218331-2020 | √ | √ | × | × | √ | √ | × | √ | √ | √ | × | × | √ | √ | × | √ | √ | √ | Ht can replaced by ET or UT |
| GB/T 218332-2020 | √ | √ | × | × | √ | × | × | √ | √ | √ | × | × | √ | √ | × | √ | √ | √ | Ht can replaced by ET or UT |
| ASTMA790 | √ | √ | × | × | √ | × | × | √ | √ | × | × | × | × | × | × | √ | √ | √ | Ht can replaced by ET or UT |

## SURFACE POLISHING VS ROUGHNESS OF STAINLESS STEEL SEAMLESS TUBE.
## 不锈钢无缝管表面抛光与粗糙度的对照表。

| | | |
|---|---|---|
| 1 | 400M/400# | Ra 0.1-0.2um |
| 2 | 350M/350# | Ra 0.2-0.25um |
| 3 | 300M/300# | Ra 0.3-0.4um |
| 4 | 250M/250# | Ra 04-0.8um |
| 5 | 200M/200# | Ra 0.6-1.2um |
| 6 | 150M/150# | Ra 0.8~1.6um |
| 7 | 100M/100# | Ra 1.6~3.2um |

## COMPARISON TABLE OF ROUGHNESS CODE AND PARAMETERS
## 粗糙度与参数对照表

| The standard code | GB1031-2009 | | | | | ISO | DIN4763(1998) | | |
|---|---|---|---|---|---|---|---|---|---|
| Charact-erization Parameter | Ra | | Ra&Ry | | Old standard grade code | Level code | Ra (um) | R1 (um) | Level code |
| | Ⅰ | Ⅱ | Ⅰ | Ⅱ | | | | | |
| Surface roughness (finish) value and code | 0.012 | | 0.05 | | ▽14 | | 0.005 | 0.04 | |
| | | | | | | | 0.012 | 0.063 | |
| | 0.025 | 0.012 | 0.1 | | ▽13 | N1 | 0.025 | 0.1 | |
| | | | | | | | 0.040 | 0.16 | △ |
| | 0.05 | 0.025 | 0.2 | | ▽12 | N2 | 0.063 | 0.25 | △ |
| | | | | | | | 0.10 | 0.40 | △ |
| | 0.1 | 0.05 | 0.4 | | ▽11 | N3 | 0.16 | 0.63 | △ |
| | | | | | | | 0.25 | 1.0 | |
| | 0.2 | 0.1 | 0.8 | | ▽10 | N4 | 0.40 | 1.0 | |
| | | | | | | | 0.63 | 2.5 | |
| | 0.4 | 0.2 | 1.6 | | ▽9 | N5 | 1.0 | 4 | |
| | | | | | | | 1.6 | 6.3 | |
| | 0.8 | 0.4 | 3.2 | | ▽8 | N6 | 2.5 | 10 | △ |
| | | | | | | | 4.0 | 16 | △ |
| | 1.6 | 0.8 | 6.3 | | ▽7 | N7 | 6.3 | 25 | △ |
| | | | | | | | 10 | 40 | |
| | 3.2 | 1.6 | 12.5 | 6.3 | ▽6 | N8 | 16 | 63 | ▷ |
| | | | | | | | 25 | 100 | ▷ |
| | 6.3 | 3.2 | 25 | 12.5 | ▽5 | N9 | 40 | 160 | |
| | | | | | | | 63 | 250 | |
| | 12.5 | 6.3 | 50 | 25 | ▽4 | N10 | 100 | 400 | |
| | | | | | | | 160 | 630 | |
| | 25 | 12.5 | 100 | 50 | ▽3 | N11 | 250 | 1000 | |
| | | | | | | | | | |
| | 50 | 25 | 200 | 100 | ▽2 | N12 | | | ▷ |
| | | | | | | | | | |
| | 100 | 50 | 400 | 200 | ▽1 | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

Note:

①Dumig use of GB1031-2009,it is Recommended to select Ra preferentialy within the range of common parameter values for surface roughness (0.025-6.3,um for Ra and 0.100-25,um for Rz).It is recommended to use Ra for general old standard ▽4-▽12 and use Rz for ▽1-▽3 and ▽13-▽14.Parameter Ry is used in most cases for bearings,meters and wood procduts.

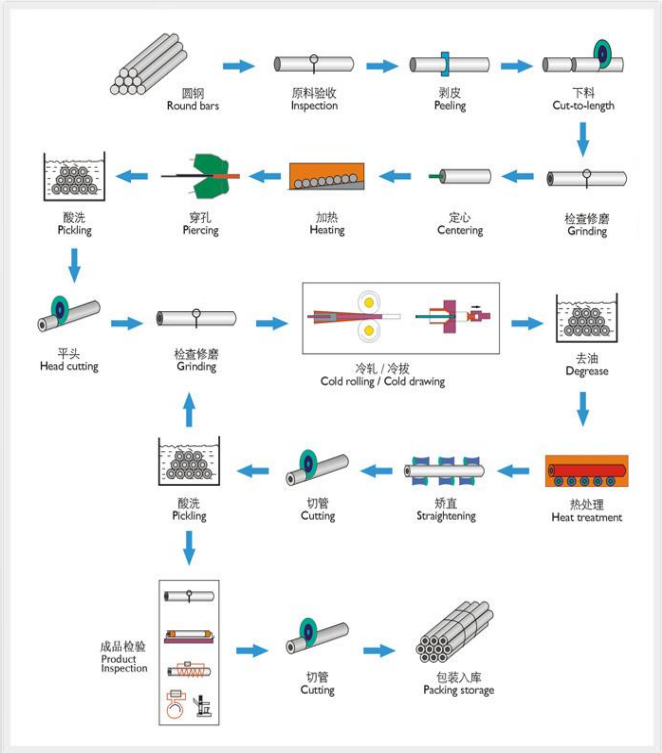
②Type I is ofen used for general machinery. However the designer may use lower roughness values ( such as Tpye II) based on the functional requirements of the parts on those occasion with higher surface quality requirements.

③The listed old standard level code is GB1031-2009.

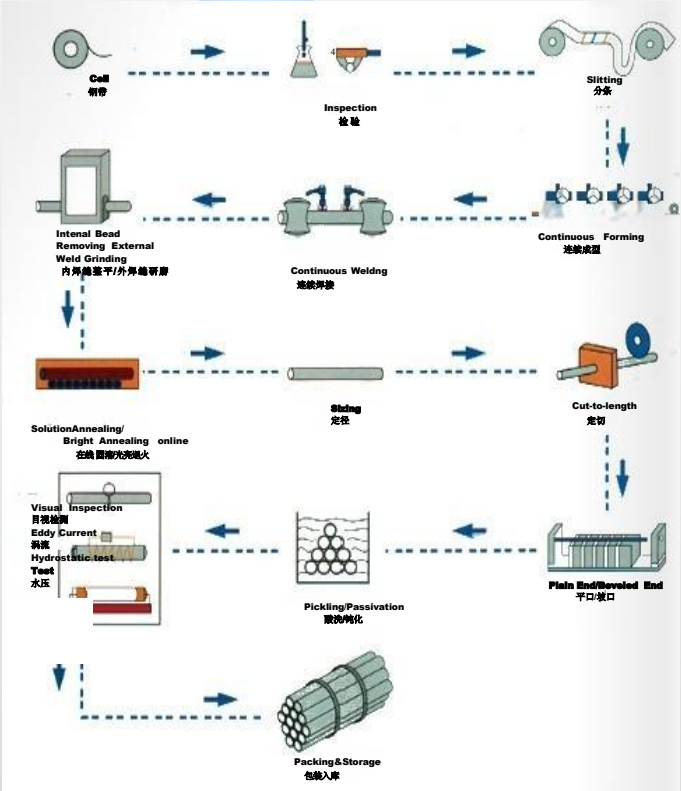
④GB1031-2009 is equivalent to ISO 1302-1998,GB1031-83 and ISO 468.

In accordance with product standard or cilent requirements,conduct other testing or inspection,including technical performance ,physical and chemical testing,,water pressure inspection,etc.

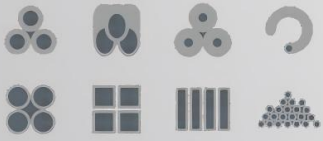
**CONTINUOUS MANUFACTURING PROCESS OF SEAMLESS PIPES &TUBES**
**不锈钢无缝管生产工艺流程**



**CONTINUOUS MANUFACTURING PROCESS OF WELDED PIPES &TUBES**
**连续成型焊管生产工艺流程**



**STAINLESS STEEL PIPELINE PRODUCTS MANUFACTURER AND SUPPLIER**

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