



JIALIN STAINLESS STEEL PIPE



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浙江嘉林管阀有限公司

ZHEJIANG JIALIN PIPE VALVE CO.,LTD

愿景	成为世界一流的不锈钢管供应商，这是我们的远景目标，我们要在企业管理水平、科技开发能力、生产运营能力、人力资源结构等反映企业竞争优势的指标上达到世界一流企业的水平。
宗旨	以“品质第一、诚信至上”为本打造特色康鑫、绿色康鑫、人文康鑫。
价值观	人的价值高于物的价值;共同的价值高于个人的价值;消费者所看重的价值高于企业的利润价值。
战略	依靠全体员工的智慧和汗水，把康鑫不锈钢建成组织体系科学化、市场结构多元化、生产经营集约化、企业管理现代化的跨地区、跨行业、跨所有制、跨国经营的大型企业集团。
Prospect	It is our goal to become a world's first class stainless steel pipe supplier. We will reach the level of a world's first class enterprise in the indexes that reflect enterprise competition advantages such as enterprise management level, scientific development capacity, production and operation capacity, human resources structure, etc.
Principle	Creating unique Kangxin, green Kangxin and humanistic Kangxin by keeping to the principle of "quality first and sincerity foremost".
Values	Human value is superior to material value. Collective value is higher than individual value. Customer value is greater than enterprise value.
Strategies	Relying on wisdom and sweat of all personnel, we will build Kangxin into a large-sized cross-region, cross-industry, cross-ownership and cross-country enterprise group. With scientific organization, diversified market structure, intensive production and operation and modern enterprise management.

领航者

开创新领域·新平台·新未来。
PILOT FUTURE

主宰命运，领航未来



TALENTS & EFFICIENT TEAM

人才与高效团队

康鑫始终坚持员工是企业最有价值的资产，是康鑫的未来；坚持把选才、育才、用才放在企业发展的首位，将人才引进作为一种具有最高收益率的投资行为。我们把人才当做第一资源进行有效管理，追求员工个人发展与企业发展高度和谐统一。

我们鼓励你拥有特别的视角，独立思考问题，善于组织各方资源。在每项工作中始终能保持对结果负责的态度和积极向上乐于分享的团队精神。

Kangxin always insists that personnel are the most valuable assets and the future of our enterprise, places talent recruitment, cultivation and employment at the first place of enterprisedevelopment, and regards talent introduction as an investment activity that has the highest rateof return. We carry out effective management by viewing talents as the first resources and seek high harmony and unity between employees' personal development and enterprisedevelopment.

We encourage you to have special perspectives, to think of questions independently, to be good at organizing all resources, to be always responsible for results and keep the spirit Optimism and willingness to share in doing each task.



PRODUCTION RANGE

生产范围

无缝管尺寸 Seamless tube size

外径OD: 6mm~630mm, 壁厚WT: 0.8mm ~80mm



焊管尺寸 Welded pipe size

外径OD: 6mm~2032mm, 壁厚WT: 0.6mm ~100mm

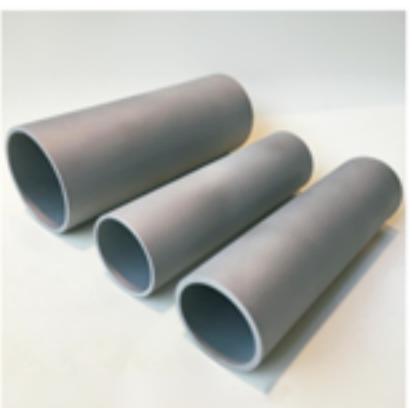


材质 Grade

304/L/H、316/L/H/Ti、321/H、317/L、347/H、310S/H、N08904(904L)、S31803、S32205、S32750、S32760、Titanium

执行标准 Standards

国标 GB/T14975-2012、GB/r14976-2012、GB/13296-2013、GB/T 12770-2002、GB/T 12771-2008、GB/T 21832-2008、GB/T21833-2008、GB/T 24593-2009、HG 20537.1-92、HG 20537.2-92、HG 20537.3-92、HG 20537.4-92、GB/T 9711.1-1997



美标 ASTM/ASME SA312, SA358, SA213, SA249, SA268, SA269, SA270, SA376, SA511, SA789, SA790, SA9288

日标 JIS G3446, G3447, G3448, G3459, G3463, G3468;

德标 DIN 17455, 17456, 17457, 17458;

欧标 EN 10216-5, EN12017-7, EN10305;

俄标 GOST 9941 etc.



SEAMLESS PIPE PRODUCTION EQUIPMENT

无缝管生产装备

公司特别注重在无缝管生产质量方面的投入和管理，为确保在行业内的领先地位以及为客户，提供优质的产品和服务，购置了诸多先进的无缝管生产设备，主要有冷拔机组、冷轧机组、矫直机、天然气退火炉、酸洗池等。



Zhejiang Kangxin focus on the manufacturing and quality control in seamless pipes, in order to stand out in the stainless steel pipe industry and supplying the quality products. We invested advanced equipment, such as cold drawing machine, cold rolling machine, straightening machine, natural gas annealing, pickling facilities and so on.



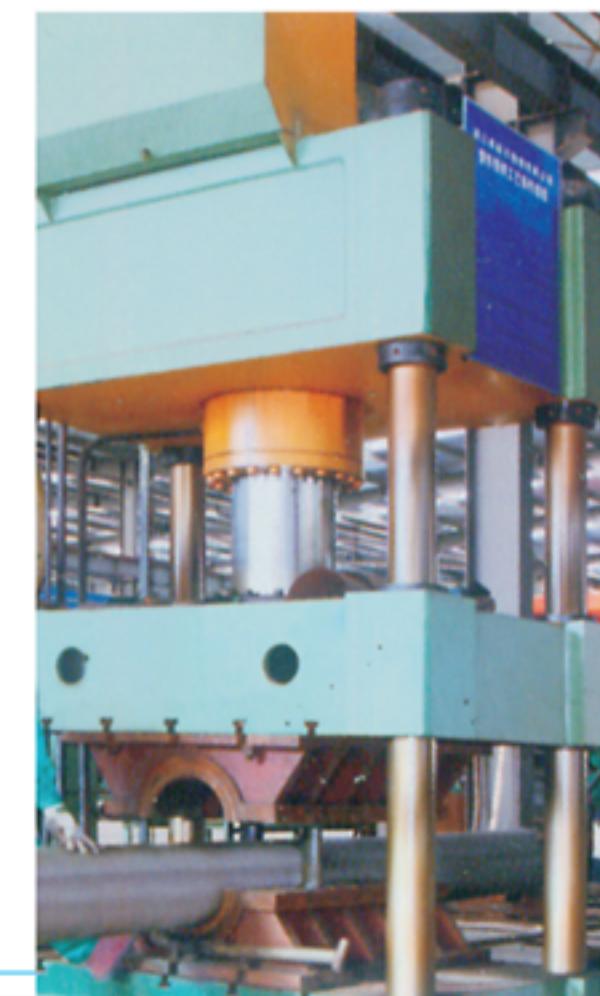
WELDED PIPE PRODUCTION EQUIPMENT

焊管生产装备

公司有丰富的焊管制管专业人才，以及荣获国内外相关检验机构的肯定的生产、检测设备。为呈现最优良的产品，我公司用齐全的生产线，加上熟练的技术及丰富的经验，在严格的质检体系下，确保制造出优良的产品，让购买者放心使用者安心。



Zhejiang Kangxin has professional technicians in welded pipes. And equipped with advanced Manufacturing and testing facilities which were approved by technical institution. With our complete production lines, skillful technical, and abundant experience, Under the strict quality control system, We can ensure to produce the excellent products, Which makes the buyers and end users be sure about our quality.



QUALITY ASSURANCE

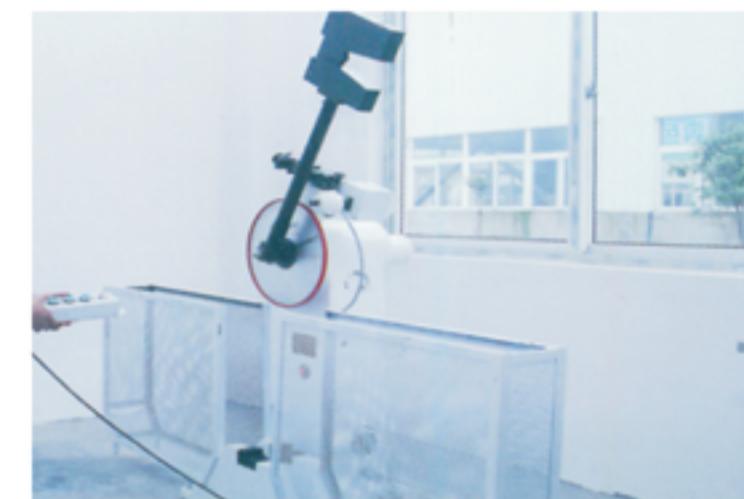
品质保证

国际标准的检测试验中心

康鑫拥有国际先进完善的检测试验设施，并配备了各类技术人员，从产品开发、原料供应、生产过程管理、营销管理严格按照国际质量体系标准进行规范，严格把关，以确保每件产品达到环保卫生要求，生产出符合国际绿色环保标准的高品质终极产品。

Internationally Standard Inspection and Testing Center

Kangxin is equipped with internationally advanced and perfect inspection and testing facilities, and various technicians. Product development, raw material provision, production process management and marketing management are strictly controlled in accordance with international quality systems, so as to ensure every product meets the requirements for environmental protection and sanitation, and high quality products meeting international environmental protection standards are produced.



STAINLESS STEEL SEAMLESS PIPE

不锈钢无缝管

国际标准的检测试验中心

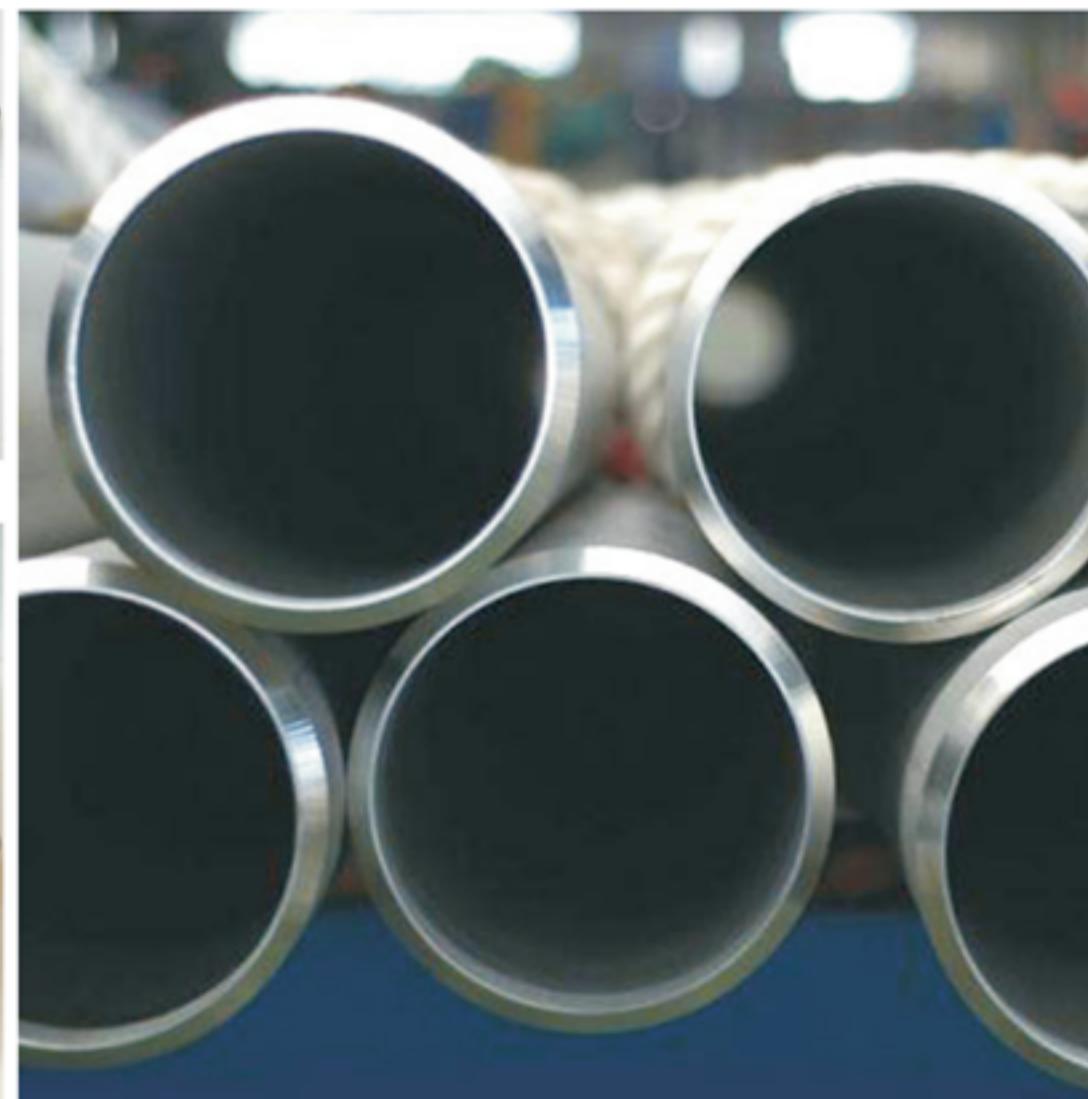
规格Size range :

Φ6mm~630mm x 0.8mm~80mm

材质Material :

GB(China Standard) : 06Cr18Ni11Ti, 06Cr19Ni10, 06Cr25Ni20, 022Cr19Ni10, 022Cr17Ni12Mo2, 06Cr17Ni12Mo2, 07Cr17Ni12Mo2, 022Cr19Ni13Mo3, 06Cr18Ni11N6, 07Cr18Ni11N6

ASTM/ASME material: 304/304L, 316/316L, 316Ti, 321/H, 309S/H, 310S/H, 317/L, 347/H, N08904, S31254, 800/H, S31803, 32205, S32750, S32760



STAINLESS STEEL WELDED PIPE

不锈钢焊管

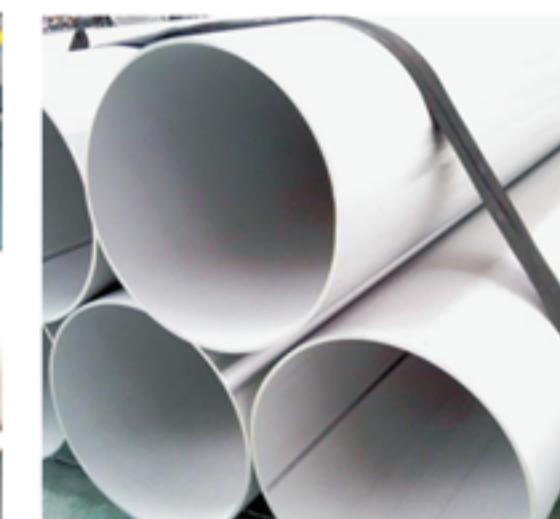
规格Size range :

Φ6mm~2020mm x 0.6mm~ 100mm

材质Material :

GB(China Standard) : 06Cr18Ni11Ti, 06Cr19Ni10, 06Cr25Ni20, 022Cr19Ni10, 022Cr17Ni12Mo2, 06Cr17Ni12Mo2, 022Cr19Ni13Mo3, 06Cr18Ni11N6, 07Cr18Ni11N6

ASTM/ASME material: 304/L/H, 316/L/H, 316Ti, 321/H, 309S/H, 310S/H, 317/L, 347/H, N08904, S31254, 800/H, S31803, 32205, S32750, S32760



PRODUCTION SHOP

生产车间



PRODUCTION SHOP

生产车间



APPLICATION SCOPE

应用范围

我公司不锈钢管广泛用于石油、化工、医疗、食品、轻工、机械仪表等工业输送管道以及机械结构部件等。另外，在折弯、抗扭强度相同时，重量较轻，所以也广泛用于制造机械零件和工程结构。也常用作生产各种常规武器、枪管、炮弹等。以满足各种用途对不锈钢组织和性能的要求。

Our stainless steel pipe is widely used in petroleum, chemical industry, medical treatment, food, light industry, mechanical instrument and other industrial transmission pipelines and mechanical structural components. In addition, when the bending and torsional strength are the same, the weight is lighter, so it is also widely used in manufacturing mechanical parts and engineering structures. It is also commonly used to produce all kinds of conventional weapons, barrels, shells, etc. To meet the requirements of stainless steel structure and performance for various purposes.



INDUSTRY SERVED

工业应用领域



耐蚀合金

CORROSION RESISTANT ALLOY

金属材料在腐蚀介质中所具有的抵抗介质侵蚀的能力，称耐蚀性。采用合金化方法获得耐蚀合金：提高金属或合金的热力学稳定性；加入易钝化合金元素；加入促使合金表面生成致密腐蚀产物保护膜的合金元素。用于海洋与化学加工设备、泵、阀门零部件、容器等。



双相不锈钢

DUPLEX STAINLESS STEEL

沉淀硬化钢

PRECIPITATION HARDENING STEEL



高温合金

HIGH TEMPERATURE ALLOY

高温合金主要用于制造航空、船舶和工业用燃气轮机的涡轮叶片、导向叶片、涡轮盘、高压气机盘和燃烧室等高温部件。还用于制造航天飞行器、火箭发动机、核反应堆、石油化工设备以及煤的转化等能源转化装置。



特殊不锈钢

SPECIAL STAINLESS STEEL

耐空气、蒸汽、水等弱腐蚀介质和酸、碱、盐等化学浸蚀性介质腐蚀的钢。有圆钢、管件、锻件、法兰等，在高温下强度高，变形抗力大，增加了锻造成型的难度，适合制备螺栓、排气阀等。可定做各种非标材料。

MATERIAL 材质

镍200 UNS 2200 / W Nr 2. 4060

99.6%高精度镍，有良好的机械性能，良好的耐水腐蚀，用于在食品、合成纤维、苛性碱等处理时保持产品的纯度。也用于化工海运容器、电器电子部件、航空航天和导弹元件。

镍201 UNS 2201 / W Nr 2. 4061

近似镍200，但有少量碳元素来防止在315°C高温上的细粒度的脆化。主要应用于腐蚀性的蒸发器、燃烧皿、镀金棒材和电子元件。

400合金UNS N04400 / W Nr 2. 4360

镍铜合金，在大范围温度下有高强度和强韧性，在许多腐蚀环境下有出色的抗腐蚀功能。许多领域应用，特别是在轮船制造和化工制造。

K-500合金UNS N05500 / W Nr 2. 4375

镍铜合金，除具有合金400的优秀耐腐蚀性外，通过添加铝和钛来增强强度和硬度。

718合金UNS N07718 / W Nr 2. 4668

沉淀硬化的镍铬合金，耐腐蚀，耐氧化，耐高温700°C下都保持高强度。有良好的拉力、韧性和稳定性，可焊接。广泛用于石油石化、燃气涡轮等许多工业领域。

X-750合金UNS N07750 / W Nr 2. 4669

沉淀硬化的镍铬合金，耐腐蚀，耐氧化，耐高温700°C下都保持高强度。甚至到低温都有良好的性能，广泛用于工业领域。

NICKEL 200, UNS N02200 / W. Nr. 2. 4060

Commercially pure wrought nickel (99.6%) with good mechanical properties and aqueous corrosion resistance, useful for maintaining product purity in the handling of foods, synthetic fibers, and caustic alkali. Other applications include chemical shipping drums, electrical and electronic parts, aerospace and missile components.

NICKEL 201, UNS N02201/ W. Nr. 2. 4061

Similar to Nickel 200 but with low carbon controlled to prevent intergranular embrittlement at above 315°C. Typical applications are caustic evaporators, combustion boats, plater bars, and electronic components.

ALLOY 400, UNS N04400 / W. Nr. 2. 4360

Is a Ni-Cu Alloy with high strength and toughness over a wide temperature range and excellent resistance to many corrosive environments. Used in many fields, especially Marine and Chemical processing.

ALLOY K-500, UNS N05500 1 W. Nr. 2. 4375

Is a Ni-Cu Alloy which combines the excellent corrosion resistance of Alloy 400 with the added advantages of greater strength and hardness by adding aluminum and titanium following with age hardening.

ALLOY 718, UNS N07718 / W.. Nr. 2. 4668

Is a precipitation hardened Ni-Cr alloy which has high strength and corrosion resistance for service temperatures up to 700°C. It can be fabricated, combined with good tensile, fatigue, creep, and rupture strength. Used in a wide range of applications (Oil & Gas, Gas Turbines, and many industrial fields).

ALLOY X-750, UNS N07750 / W. Nr. 2. 4669

Is a precipitation hardened Ni-Cr alloy used for its corrosion and oxidation resistance and high strength at temperatures to 700°C. Has excellent properties down to cryogenic temperatures, used in a wide variety of industrial fields.

MATERIAL

材质

80A合金UNS N07080 / W Nr 2. 4952 & 2. 4631

加钛铝碳元素的沉淀硬化的镍铬合金，工作温度可到815°C，用于燃气涡轮元件(叶片、圆环和圆盘)，螺栓和核电锅炉管。

600合金UNS N06600 / W Nr 2. 4816

镍铬铁合金，许多有机成分和无机成分组合使其此合金耐腐蚀。耐高温时的氧化，以及其他腐蚀环境下的氧化。从低温到1095°C都应用，广泛用于化工、造纸、热处理、航空和核电等工业领域。

690合金UNS N06690 / W Nr 2.4642

镍铬铁合金，在许多腐蚀水质环境和高温环境都有良好的耐腐蚀性，耐高温性。高强度，良好的冶金稳定性。用于氮酸制造、煤气化设备、石油化工和核电等领域。

X合金UNS N06002 / W Nr

镍铬铁合金，加工时添加了抗氧化物质。良好的加工性能，高温时有强度。在高温650, 760, 870°C放1600小时后有良好的柔软性。在石油化工应用有良好的耐裂纹腐蚀。广泛用于涡轮机，热处理和化工。

020合金UNS N08020

镍铬铁合金，在含硫酸的化工环境有出色的耐腐蚀性，在含氯化物，氯酸和磷酸的环境有有效的耐腐蚀性。应用于水质腐蚀环境。

028合金UNS N08028 / W Nr 2. 453

含不锈钢成份的合金，用于腐蚀环境，在酸性环境，硫酸环境和盐性环境都有耐腐蚀性。用于化工和石油化工工业。

625合金UNS N06625 / W Nr 2. 4856

镍铬钼合金，高强度，良好的加工性能，出色的耐腐蚀性。耐点状和裂缝腐蚀。良好的耐疲劳性。高拉伸强度，耐氯离子裂缝腐蚀。从低温到982°C都可用。广泛用于工业领域。

725合金UNS N07725

沉淀硬化的镍铬钼合金，合金625的升级版，强度是625的两倍。耐腐蚀性同625。抗氯气、氯气和二氧化硫的腐蚀，使得此合金用于酸性气体工业。抗海水的点状和裂缝腐蚀，使得此合金用于做轮船的紧固件。

686合金UNS N06686 / W Nr 2. 4606

单相镍铬钼合金，在苛刻的环境有出色的耐腐蚀性。耐点状和裂缝腐蚀。用于化工，污染控制，造纸和废物处理。

C-4合金UNS N06455 / W Nr 2.4610

镍铬钼合金，在高温下有出色的稳定性，良好的柔软性，良好的耐腐蚀性。在甚至到1038°C都有出色的耐裂纹腐蚀，耐氧化。广泛用于化工，如污染的热矿酸，溶剂，氯化物，氯介质，干氯化物，乙酸，无水醋酸，海水和盐水。

ALLOY 80A, UNS N07080 / W. Nr. 2. 4952 & 2. 4631

Is a precipitation hardened Ni-Cr alloy, strengthened by additions of titanium, aluminum and carbon, developed for service at temperatures up to 815°C, used for gas turbine components (blades, rings and discs), bolts, nuclear boiler tube supports.

ALLOY 600, UNS N06600 / W. Nr. 2. 4816

Is a Ni-Cr-Fe Alloy, it has resistance to corrosion by many organic and inorganic compounds. Resistance to oxidizing conditions at high temps, or in corrosive solutions, used in a variety of applications involving temperatures from cryogenic to above 1095°C, in wide range industrial fields (Chemical, Pulp and Paper, Heat Treating, Aircraft, and Nuclear Power Generation).

ALLOY 690, UNS N06690 / W. Nr. 2. 4642

Is a Ni-Cr-Fe alloy with excellent resistance to many corrosive aqueous media and high-temperature atmospheres, has high strength, good metallurgical stability, use for various applications (Nitric Acid production, Coal Gasification Units, Petrochemical Processing, Nuclear Power Generation).

ALLOY x, UNS N06002 / W. Nr.

Is a Ni-Cr-Fe alloy that possesses an exceptional combination of oxidation resistance, fabric ability and high temperature strength, good ductility after prolonged exposure at temperatures of 650, 760, and 870°C for 16,000 hours. It also has resistance to stress corrosion cracking in petrochemical applications. Widely use in gas turbine engines for combustion zone components, Heat Treating Industries and Chemical Processing.

ALLOY 020, UNS N08020

Is a Ni-Cr-Fe Alloy, it has excellent corrosion resistance in chemical environments containing sulfuric acid, and useful resistance to environments containing chlorides, nitric acid, and phosphoric acid. Applications for alloy 020 requiring resistance to aqueous corrosion are essentially the same as those for Alloy 825.

ALLOY 028, UNS N08028 / W. Nr. 2. 453

Is a highly alloyed austenitic stainless steel offering resistance to a variety of corrosive media resistance to both oxidizing and reducing acids and salts, resistance to sulfuric acid. Used in the chemical and petrochemical processing industry.

ALLOY 625, UNS N06625 / W. Nr. 2. 4856

Is a Ni-Cr-Mo Alloy with high strength, excellent fabric ability and outstanding corrosion resistance, freedom from local attack (pitting and crevice corrosion), high corrosion fatigue strength, high tensile strength, and resistance to chloride ion stress corrosion cracking. Service temperatures range from cryogenic to 982°C, used in wide range industrial fields.

ALLOY 725, UNS N07725

Is a precipitation hardened Ni-Cr-Mo Alloy, an upgrade version of Alloy 625. The strength of alloy 725 is twice than annealed alloy 625. It has essentially the same corrosion resistance as alloy 625. Used for hangers, landing nipples, side pocket mandrels and polished bore receptacles in sour gas service, where it resists the effects of hydrogen sulfide, chlorides and carbon dioxide, also attractive for high strength fasteners in marine applications, where it resists corrosion, pitting and crevice attack in sea water.

ALLOY 686, UNS N06686 / W. Nr. 2. 4606

Is a single phase, austenitic Ni-Cr-Mo-W Alloy which has outstanding corrosion resistance in a range of severe environments. Has resistance to general, pitting and crevice corrosion increases with the alloying (Cr+Mo+W) content. Used for resistance to aggressive media in chemical processing, pollution control, pulp and paper manufacture, and waste management applications.

ALLOY C-4, UNS N06455 / W. Nr. 2.4610

Is a Ni-Cr-Mo alloy with outstanding high temperature stability, high ductility and corrosion resistance, has excellent resistance to stress corrosion cracking and to oxidizing atmospheres up to 1038°C, has exceptional resistance to wide variety of chemical process environments, include hot contaminated mineral acids, solvents, chlorine and chlorine-contaminated media (organic and inorganic), dry chlorine, formic and acetic acids, acetic anhydride, and seawater and brine solutions.

MATERIAL

材质

C-22合金UNS N06022 / W Nr 2.4602

添加钨的镍铬钼合金，出色的耐点状和裂隙腐蚀。用于化工、高温环境和海水盐水环境。

C-2000合金UNS N06200 / W Nr 2.4675

添加铜的镍铬钼合金，在大范围的温度下耐所有酸。耐点状和裂隙腐蚀。用于化工、制药、供暖系统。

G-30合金UNS N06030 / W Nr 2.4603

镍铬钼合金，在硝酸、硫酸、磷酸等高氧化酸性环境有超级耐腐蚀性。用于化工和石油化工。

G-35合金UNS N06035 / W Nr 2.4643

镍铬钼合金，在潮湿的酸性环境，氧化酸性环境，碱性的介质和氯离子介质的环境有良好的耐腐蚀性。

800合金UNS N08800 / W Nr 1.4876

镍铁铬合金，对许多介质有耐腐蚀性、耐裂隙腐蚀。抗氧化。使用温度直到816°C。用于石油和天然气、化工、石油化工、造纸、电力等腐蚀和高温环境。

800H合金UNS N08810 / W Nr 1.4958

镍铁铬合金，比合金800强度更好。含碳量是0.05%–0.10%，铝+钛是0.30%–1.20%。高温下有良好强度。

800HT合金UNS N08811 / W Nr 1.4959

镍铁铬合金，压力性能比合金800H好。含碳量是0.06%–0.10%，铝+钛是0.85%–1.20%。

825合金UNS N08825 / W Nr 2.4858

添加钼、铜和钛的镍铁铬合金，耐点状和裂隙腐蚀。在氧化物质和盐性物质有耐腐蚀性。用于化工、污染控制、石油和天然气、酸制造、酸洗、原子能燃料回收、辐射废物处理。用途类似合台020。

925合金UNS N09925

添加钼、铜、钛和铝的镍铁铬合金，是合金825的升级版，有更好的强度。用于气井下和地表管道等元件，也用于紧固件、轮船、水泵、高强度配件系统。

B-2合金UNS N10665

镍钼合金，对氯酸有出色的耐腐蚀性，也耐氯氯酸、硫酸、乙酸、磷酸。耐点状和裂隙腐蚀。

B-3合金UNS N10675 / W Nr 2.4600

镍钼合金，对氯酸有出色的耐腐蚀性，也耐氯氯酸、硫酸、乙酸、磷酸等酸性介质。

C-276合金UNS N102765 / W Nr 2.4819

镍钼铬合金，耐点状和裂隙腐蚀性能出色，耐氧化环境，温度可到1038°C。大量用于化工制造设备，使用在强氧化物，热质环境(有机和无机的)，氯化物、海水盐水环境的化工设备。

MATERIAL SELECTION

Chemical Composition

Nickel	Ni		Fe		Cu		Mn		C		Si		S					
Nickel 200	N02200		99.0 min		0.4 max		0.25 max		0.35 max		0.15 max		0.35 max		0.010 max			
Nickel 201	N02201		99.0 min		0.4 max		0.25 max		0.35 max		0.02 max		0.35 max		0.010 max			
Ni-Cu Alloy	Ni	Cu	Fe		Mn		C		Si	S	Al		Ti					
Alloy 400	N04400	63.0 min	28.0 34.0	2.5 max	2.0 max	0.30 max	0.50 max	0.024 max										
Alloy K-500	N05500	63.0 min	27.0 33.0	2.0 max	1.5 max	0.18 max	0.50 max	0.010 max	2.30 3.15	0.35 0.85								
Ni-Cr-Fe Alloy	Ni	Cr	Fe	Mo	Cu	Mn	C	Si	S	P	Nb-Ta	Co	W					
Alloy 600	N06600	72.0 min	14.0 17.0	6.0 10.0		0.50 max	1.00 max	0.15 max	0.50 max	0.015 max								
Alloy 690	N06690	58.0 min	27.0 31.0	7.0 11.0		0.50 max	0.50 max	0.05 max	0.50 max	0.015 max								
Alloy X	N06002	Remainder	20.5 23.0	17.0 20.0	8.0 10.0	Remainder	1.00 max	0.05 0.15	1.00 max	0.030 max	0.040 max	0.50 2.50	0.20 1.00					
Alloy O20	N08020	32.0 38.0	19.0 21.0	3.0 4.0	Remainder	2.0 3.0	2.00 max	0.07 max	1.00 max	0.035 max	0.045 max	BxC 1.00						
Alloy O28	N08028	30.0 34.0	26.0 28.0	3.0 4.0	Remainder	0.60 1.40	2.50 max	0.03 max	1.00 max	0.030 max	0.030 max							
Ni-Cr Alloy	Ni	Cr	Fe	Mo	Nb-Ta	Al	Ti	Mn	C	Si	S	P	Cu	Co	B			
Alloy 718	N07718	50.0 55.0	17.0 21.0	Remainder	2.8 3.3	4.75 5.50	0.20 0.80	0.65 1.15	0.35 max	0.08 max	0.35 max	0.015 max	0.30 max	1.00 max	0.006 max			
Alloy X-750	N07750	70.0 min	14.0 17.0	5.0 9.0		0.70 1.20	0.40 1.00	2.25 2.75	1.00 max	0.08 max	0.50 max	0.010 max	0.50 max	1.00 max				
Alloy 80A	N07080	Remainder	18.0 21.0	3.0 max		0.50 1.80	1.80 2.70	1.00 max	0.10 max	1.00 max	0.015 max							
Ni-Cr-Mo Alloy	Ni	Cr	Mo	Fe	Mn	C	Si	S	P	Nb-Ta	Al	Ti	Cu	W	Co	V		
Alloy 625	N06625	58.0 min	20.0 23.0	8.0 10.0	5.0 max	0.50 max	0.10 max	0.50 max	0.015 max	3.15 4.15	0.40 max	0.40 max						
Alloy-725	N07725	55.0 59.0	19.1 22.5	7.0 9.5	Remainder	0.35 max	0.03 max	0.20 max	0.010 max	0.015 max	2.75 4.00	0.35 max	1.00 1.7					
Alloy 686	N06686	Remainder	19.0 23.0	15.0 17.0	5.0 max	0.75 max	0.01 max	0.08 max	0.020 max	0.040 max		0.02 0.25	3.00 4.40					
Alloy C-4	N06455	Remainder	14.0 18.0	14.0 17.0	3.0 max	1.00 max	0.015 max	0.08 max	0.030 max	0.040 max		0.70 max		2.00 max				
Alloy C-22	N06022	Remainder	20.0 22.5	12.5 14.5	2.0 6.0	0.50 max	0.015 max	0.08 max	0.020 max	0.020 max				2.50 3.50	2.50 max	0.35 max		
Alloy C-2000	N06200	Remainder	22.0 24.0	15.0 17.0	3.0 max	0.50 max	0.01 max	0.08 max	0.010 max	0.025 max	0.50 max	1.30 1.90	2.00 max					
Alloy G-30	N06030	Remainder	28.0 31.5	4.0 6.0	13.0 17.0	1.50 max	0.03 max	0.80 max	0.020 max	0.040 max	0.30 1.50	1.00 2.40	1.50 4.00	5.00 max				
Alloy G-35	N06035	Remainder	32.25 34.25	7.6 9.0	2.0 max	0.50 max	0.05 max	0.60 max	0.015 max	0.030 max	0.40 max	0.30 0.50	0.60 max	1.00 max	0.20 max			
Ni-Fe-Cr Alloy	Ni	Fe	Cr	Mn	C	Si	S	P	Al	Ti	Mo	Cu	Nb	Al+Ti				
Alloy 800	N08800	30.0 35.0	39.5 23.0	19.0 1.5	0.10 max	1.00	0.015 max		0.15 0.60	0.15 0.60		0.75 max						
Alloy-800H	N08810	30.0 35.0	39.5 23.0	19.0 1.5	0.05 max	1.00	0.015 max		0.15 0.60	0.15 0.60		0.75 max						
Alloy 800HT	N08811	30.0 35.0	39.5 23.0	19.0 1.5	0.06 max	1.00	0.015 max		0.15 0.60	0.15 0.60		0.75 max			0.85 1.20			
Alloy 825	N08825	38.0 46.0	22.0 23.5	19.5 3.0	1.0 max	0.05 max	0.50 max	0.030 max	0.20 1.20	0.60 3.5	2.5 3.0							
Alloy 925	N09925	42.0 46.0	22.0 22.5	19.5 1.0	1.0 max	0.03 max	0.50 max	0.030 max	0.030 max	0.030 max	0.50 0.50	2.40 3.00	3.5 4.00	0.50 max				
Ni-Mo Alloy	Ni	Mo	Cr	Fe	Mn	C	Si	S	P	W	Co	V	Cu	Al	Ti	Nb	Ta	Zr
Alloy B-2	N10665	26.0 30.0	1.0 max	2.0 max	1.0 max	0.02 max	0.10 max	0.030 max	0.040 max		1.00 max							
Alloy B-3	N10675	65.0 min	27.0 32.0	1.0 3.0	3.0 max	0.01 max	0.10 max	0.010 max	0.030 max	3.00 max	3.00 max	0.20 0.20	0.50 0.50	2.5 4.50	1.50 4.50	0.20 0.20	0.20 0.20	0.10 0.10
Ni-Mo-Cr Alloy	Ni	Mo	Cr	Fe	Mn	C	Si	S	P	W	Co	V	Cu	Al	Ti	Nb	Ta	Zr
Alloy C-276	N10276	15.0 17.0	14.5 16.5	4.0 7.0	1.00 max	0.01 max	0.08 max	0.030 max	0.040 max		3.00 max	3.00 max	0.20 0					

TYPICAL MECHANICAL PROPERTIES

Alloy	UNS Designation	EN / DIN W Nr	Condition	Tensile Strength		Yield Strength		Elongation %	Hardness NACE MR-0175
				ksi	Mpa	ksi	Mpa		
Nickel									
Nickel 200	N02200	2.4066	Annealed	55	380	15	105	40	
Nickel 201	N02201	2.4068	Annealed	50	345	10	70	40	
Ni-Cu Alloy									
Alloy 400	N04400	2.4360	Annealed	70	483	25	172	35	HRC 35 max
Alloy K-500	N05500	2.4375	Aged	140	965	100	690	20	HRC 27-35
Ni-Cr Alloy									
Alloy 718	N07718	2.4668	Aged	185	1275	150	1034	12	HRC 35-40
Alloy X-750	N07750	2.4669	Aged	170	1170	115	790	18	HRC 35 max
Alloy 80A	N07080	2.4952	Aged	135	930	90	620	20	
Ni-Cr-Fe Alloy									
Alloy 600	N06600	2.4816	Annealed	80	552	35	241	30	HRC 35 max
Alloy 690	N06690	2.4642	Annealed	85	585	35	241	30	
Alloy X	N06002	2.4665	Aged	100	690	35	241	35	HRC 35 max
Alloy 020	N08020	...	Annealed	90	620	45	300	40	HRC 32 max
Alloy 028	N08028	1.4563	Annealed	73	500	31	214	40	HRC 33 max
Ni-Cr-Mo Alloy									
Alloy 625	N06625	2.4865	Annealed	120	827	60	414	30	HRC 35 max
Alloy 725	N07725	...	Aged	150	1034	120	827	20	HRC 43 max
Alloy 686	N06686	2.4606	Sol.Annealed	100	690	45	310	45	HRC 40 max
Alloy C-4	N06455	2.4610	Sol.Annealed	100	690	40	276	40	
Alloy C-22	N06022	2.4602	Sol.Annealed	100	690	45	310	45	HRC 40 max
Alloy C-2000	N06200	2.4675	Sol.Annealed	100	690	41	283	45	
Alloy G-30	N06030	2.4603	Sol.Annealed	100	690	45	310	60	HRC 41 max
Alloy C-35	N06035	2.4643	Sol.Annealed	85	585	35	241	30	
Ni-Fe-Cr Alloy									
Alloy 800	N08800	1.4876	Annealed	75	517	30	207	30	HRC 35 max
Alloy 800H	N08810	1.4958	Annealed	65	448	25	172	30	HRC 35 max
Alloy 800HT	N08811	1.4959	Annealed	65	448	25	172	30	HRC 35 max
Alloy 825	N08825	2.4858	Annealed	85	586	35	241	30	HRC 35 max
Alloy 925	N09925	...	Aged	140	965	110	758	18	HRC 35 max
Ni-Mo Alloy									
Alloy B-2	N10665	...	Annealed	110	760	51	350	40	
Alloy B-3	N10675	2.4600	Annealed	110	760	51	350	40	
Ni-Mo-Cr Alloy									
Alloy C-276	N10276	2.4819	Annealed	100	690	41	283	40	HRC 35 max

SPECIFICATIONS

Nickel	UNS No	Forgings Billet / Bar for Reforging Bar, Rod, Wire	Plate Sheet Strip	Smis Pipe & Tube Condenser & Heat Exchanger Tube	Fittings ASTM B366	Flanges Forged Fittings Valve Parts	Material for Oilfield Equipment
Nickel							
Nickel 200	N02200	ASTM B564, ASTM B160	ASTM B162	ASTM B161, ASTM B163	WP/N		
Nickel 201	N02201	ASTM B160	ASTM B162	ASTM B161, ASTM B163	WP/NL		
Ni-Cu Alloy							
Alloy 400	N04400	ASTM B564, ASTM B164	ASTM B127	ASTM B165, ASTM B163	WPNC		NACE MR-0175
Alloy K-500	N05500	ASTM B865					NACE MR-0175
Ni-Cr Alloy							
Alloy 718	N07718	ASTM B637, AMS 5662, AMS 5663			ASTM B637	NACE MR-0175, API 6A71B	
Alloy X-750	N07750	ASTM B637, AMS 5667			ASTM B637	NACE MR-0175, API 6A71B	
Alloy 80A	N07080	ASTM B637			ASTM B637		
Ni-Cr-Fe Alloy							
Alloy 600	N06600	ASTM B564, ASTM B472, ASTM B166	ASTM B168	ASTM B167, ASTM B163	WPNCI		NACE MR-0175
Alloy 690	N06690	ASTM B564, ASTM B166	ASTM B168	ASTM B167, ASTM B163			
Alloy X	N06002	ASTM B472, ASTM B572, ASTM B574	ASTM B435	ASTM B622	WPHX		NACE MR-0175
Alloy 020	N08020	ASTM B472, ASTM B473	ASTM B463	ASTM B729	WP20CB	ASRM V462	
Alloy 028	N08028	EN 10088-2	ASTM B709	ASTM B668			NACE MR-0175
Ni-Cr-Mo Alloy							
Alloy 625	N06625	ASTM B564, ASTM B472, ASTM B446	ASTM B443	ASTM B444	WPNCMC		NACE MR-0175
Alloy 725	N07725	ASTM B637, ASTM B805			ASTM B637	NACE MR-0175, API 6A71B	
Alloy 686	N06686	ASTM B564, ASTM B574	ASTM B575		ASTM B462	NACE MR-0175	
Alloy C-4	N06455	ASTM B574	ASTM B575	ASTM B622	WPHC4		
Alloy C-22	N06022	ASTM B564, ASTM B472, ASTM B574	ASTM B575	ASTM B622	WPHC22	ASTM B462	NACE MR-0175
Alloy C-2000	N06200	ASTM B564, ASTM B472, ASTM B574	ASTM B575	ASTM B622	WPHC200	ASTM B462	
Alloy G-30	N06030	ASTM B472, ASTM B581	ASTM B582	ASTM B622	WPHG30	ASTM B462	NACE MR-0175
Alloy C-35	N06035	ASTM B564, ASTM B472, ASTM B574	ASTM B575	ASTM B622	WPHG35	ASTM B462	
Ni-Fe-Cr Alloy							
Alloy 800	N08800	ASTM B564, ASTM B408	ASTM B409	ASTM B407, ASTM B163	WPNC		NACE MR-0175
Alloy 800H	N08810	ASTM B564, ASTM B408	ASTM B409	ASTM B407, ASTM B163	WPNC10		NACE MR-0175
Alloy 800HT	N08811	ASTM B564, ASTM B408	ASTM B409	ASTM B407, ASTM B163	WPNC11		NACE MR-0175
Alloy 825	N08825	ASTM B564, ASTM B425	ASTM B424	ASTM B423, ASTM B163	WPNCMC		NACE MR-0175
Alloy 925	N09925	ASTM B637			ASTM B637	NACE MR-0175, API 6A71B	
Ni-Mo Alloy							
Alloy B-2	N10665	ASTM B564, ASTM B472	ASTM B333	ASTM B622	WPHB-2	ASTM B462	
Alloy B-3	N10675	ASTM B564, ASTM B472, ASTM B335	ASTM B333	ASTM B622	WPHB-3	ASTM B462	
Ni-Mo-Cr Alloy							
Alloy C-276	N10276	ASTM B564, ASTM B472, ASTM B574	ASTM B575	ASTM B622	WPHC-276	ASTM B462	NACE MR-0175

SEAMLESS AND WELDED FERRITIC/AUSTENITIC STAINLESS STEEL PIPE NOMINAL 无缝及焊接的铁素体/奥氏体不锈钢公称管

化学成分要求

UNS标号B	C	Mn	P	S	Si	Ni	Cr	Mo	N	Cu	其他
S32900	0.080	1.00	0.040	0.030	0.750	2.5~0	23.0~2				

**APPROXIMATE CONTRAST FORM OF STAINLESS
STEEL NO.BETWEEN CHINA AND PARTS OF OTHER COUNTRIES**

中国与部分国家的不锈钢号近似对照表

钢类 Type	钢号 Steel grades					规格 Specification	常用标准 Common	
	中国 (GB)		美国AISI (ASTM)	日本JIS (Japan)	德国(Germany)			
	旧牌号	新牌号			DIN17006	DIN17007		
不锈钢无缝管 Stainless steel seamless tube	0Cr18Ni9	06Cr19Ni10	304/S30400	SUS304	X5CrNi18-10	1.4301	外径OD: 6mm-630mm 壁厚WT: 0.8mm-80mm	GB/T14975-2002
	00Cr19Ni10	022Cr19Ni10	304L/S30403	SUS304L	X2CrNi19-11	1.4306		GB/T14976-2002
	0Cr25Ni20	06Cr25Ni20	310S/3008	SUS310S	X12CrNi25-21	1.4845		GB13296-91
	0Cr17Ni12Mo2	06Cr17Ni12Mo2	316/S31600	SUS316	X5CrNiMo17-12-2	1.4401		国外标准(部分)
	00Cr17Ni14Mo2	022Cr17Ni12Mo2	316L/S31603	SUS316L	X2CrNiMo18-14-3	1.4435		ASTM A213/A213M
	0Cr19Ni13Mo3	06Cr19Ni13Mo3	317/S31700	SUS317	X5CrNiMo11-13-3	1.4449		ASTM A312/A312M
	00Cr19Ni13Mo3	022Cr19Ni13Mo3	317/S31703	SUS317L	X2CrNiMo18-16-4	1.4438		JIS G 3459
	1Cr18Ni9Ti	06Cr18Ni11Ti	321/S32100	SUS321	X12CrNiTi18-9	1.4878		DIN 2462
	0Cr18Ni10Ti	06Cr18Ni11Ti			X6CrNiTi18-10	1.4541		
	0Cr18Ni11Nb	06Cr18Ni11Nb	347/S34700	SUS347	X12CrNiNb18-10	1.4550		
不锈钢焊管 Stainless steel Welded tube	0Cr18Ni9	0Cr19Ni10	304/S30400	SUS304	X5CrNi18-10	1.4301	外径OD: 6mm-630mm 壁厚WT: 0.8mm-80mm	GB/T12770-91
	00Cr19Ni10	022Cr19Ni10	304L/S30403	SUS304L	X2CrNi19-11	1.4306		GB/T12771-2000
	0Cr25Ni20	06Cr25Ni20	310S/3008	SUS310S	X12CrNi25-21	1.4845		HG20537.2-92
	0Cr17Ni12Mo2	06Cr17Ni12Mo2	316/S31600	SUS316	X5CrNiMo17-12-2	1.4401		HG20537.3-92
	00Cr17Ni14Mo2	022Cr17Ni12Mo2	316L/S31603	SUS316L	X2CrNiMo18-14-3	1.4435		HG20537.4-92
	0Cr19Ni13Mo3	06Cr19Ni13Mo3	317/S31700	SUS317	X5CrNiMo11-13-3	1.4449		国外标准(部分)
	00Cr19Ni13Mo3	022Cr19Ni13Mo3	317/S31703	SUS317L	X2CrNiMo18-16-4	1.4438		ASTM A312/A312M
	1Cr18Ni9Ti	06Cr18Ni9Ti	321/S32100	SUS321	X12CrNiTi18-9	1.4878		ASTM A688/A688M
	0Cr18Ni10Ti	06Cr18Ni10Ti			X6CrNiTi18-10	1.4541		JIS G 3468
	0Cr18Ni11Nb	06Cr18Ni11Nb	347/S34700	SUS347	X12CrNiNb18-10	1.4550		DIN 2462

NATIONAL STANDARD CONTRAST FORM

国标对照表

公称直径 Nominal diameter	外径 Outside diameter	Sch 5s	Sch 10s	Sch 20s	LG	Sch 20	Sch 30	STD	Sch 40	Sch 60	Sch XS	Sch 80	Sch 100	Sch 120	Sch 140	Sch 160
15	18	1.6	2.1	2.6	-	-	-	-	2.9	-	-	3.6	-	-	-	4.5
20	25	1.6	2.1	2.6	-	-	-	-	2.9	-	-	4.0	-	-	-	5.6
25	32	1.6	2.8	3.2	-	-	-	-	3.2	-	-	4.5	-	-	-	6.3
32	38	1.6	2.8	3.2	-	-	-	-	3.6	-	-	5.0	-	-	-	7.1
40	45	1.6	2.8	3.2	-	-	-	-	3.6	-	-	5.0	-	-	-	7.1
50	57	1.6	2.8	3.6	-	3.2	-	-	4.0	-	-	5.6	-	-	-	8.8
65	76	2.0	3.0	3.6	-	4.5	-	-	5.0	-	-	7.1	-	-	-	10.0
80	89	2.0	3.0	4.0	-	4.5	-	-	5.6	-	-	8.0	-	-	-	11.0
90	-	2.0	3.0	4.0	-	4.5	-	-	5.6	-	-	8.0	-	-	-	12.5
100	108	2.0	3.0	4.0	-	5.0	-	-	5.9	-	-	8.8	-	11.0	-	14.2
125	133	2.9	3.4	5.0	-	5.0	-	-	6.3	-	-	10.0	-	12.5	-	16.0
150	159	2.9	3.4	5.0	-	5.6	-	-	7.1	-	-	11.0	-	14.2	-	17.5
200	219	2.9	4.0	6.3	-	6.3	7.1	-	8.0	10.0	-	12.0	16.0	17.5	20.0	22.2
250	273	3.6	4.0	6.3	-	6.3	8.0	-	8.8	12.5	-	16.0	17.5	22.2	25.0	28.0
300	325	4.0	4.5	6.3	-	6.3	8.8	-	10.0	14.2	-	17.5	22.2	25.0	28.0	32.0
350	377	4.0	5.0	-	8.0	8.0	10.0	10.0	11.0	16.0	13.0	20.0	25.8	28.0	32.0	36.0
400	426	4.0	5.0	-	8.0	8.0	10.0	10.0	12.5	17.5	13.0	22.2	28.5	30.0	36.0	40.0
450	480	4.0	5.0	-	8.0	8.0	11.0	10.0	14.2	20.0	13.0	25.0	30.0	36.0	40.0	45.0
500	529	5.0	5.6	-	8.0	10.0	12.5	10.0	16.0	20.0	13.0	28.0	32.0	40.0	45.0	50.0
550	-	5.0	5.6	-	8.0	-	-	10.0	-	-	13.0	30.0	-	-	-	-
600	630	5.6	6.3	-	8.0	-	-	10.0	17.5	-	13.0	32.0	-	-	-	-
650	-	-	-	8.0	-	-	10.0	-	-	13.0	-	-	-	-	-	-
700	720	-	-	8.0	-	-	10.0	-	-	13.0	-	-	-	-	-	-
750	-	-	-	8.0	-	-	10.0	-	-	13.0	-	-	-	-	-	-
800	820	-	-	8.0	-	-	10.0	-	-	13.0	-	-	-	-	-	-
850	-	-	-	8.0	-	-	10.0	-	-	13.0	-	-	-	-	-	-
900	920	-	-	8.0	-	-	10.0	-	-	13.0	-	-	-	-	-	-
950	-	-	-	8.0	-	-	10.0	-	-	13.0	-	-	-	-	-	-
1000	1020	-	-	8.0	-	-	10.0	-	-	13.0	-	-	-	-	-	-
1050	-	-	-	8.0	-	-	10.0	-	-	13.0	-	-	-	-	-	-
1100	1150	-	-	8.0	-	-	10.0	-	-	13.0	-	-	-	-	-	-
1150	-	-	-	8.0	-	-	10.0	-	-	13.0	-	-	-	-	-	-
1200	1220	-	-	8.0	-	-	10.0	-	-	13.0	-	-	-	-	-	-

STAINLESS STEEL SEAMLESS TUBE COMMONLY USED AT HOME AND ABROAD STANDARD SIZE TABLE

不锈钢无缝管常用国内外标准尺寸对照表

GB13296-2013		GB/T14976-2012			ASTM A2130A/A213M			ASTM A312/A312M		
外径偏差 (mm)	外径	允许偏差	类别	外径	允许偏差		类别	外径	允许偏差	
	≤25	±0.1			普通级	高级		≤101.6	+0.4/-0.8	
	>25≤40	±0.15	挤压管	68~159	±1.25%D	±1.0%D	热精整管	>101.6~190.5	+0.4/-1.2	
	>40≤50	±0.2		>159~426	±1.5%D			>190.5~228.6	+0.4/-1.6	
	>50≤65	±0.25	冷拔(轧)管	6~10	±0.20	±0.15		<25.4	+0.1/-0.1	
	>65≤75	±0.3		>10~30	±0.30	±0.20		25.4~38.1	+0.15/-0.15	
	>75≤100	±0.38		>30~50	±0.40	±0.30		>38.1~50.8	+0.2/-0.2	
	>100≤129	±0.38~0.64		>50	±0.9%D	±0.8%D		≥50.8~63.5	+0.25/-0.25	
	>129	±0.5%D						≥63.5~76.2	+0.3/-0.3	
								≥76.2~101.6	+0.38/-0.38	
								>101.6~190.5	+0.38/-0.64	
								>190.5~228.6	+0.38/-1.14	
							冷精整管			
壁厚偏差 (mm)	壁厚	允许偏差	类别	壁厚	允许偏差		类别	壁厚	允许偏差	
	D≤38.1	+20%S/0%S			普通级	高级		≤2.4	+40%/-0	
	D>38.1	+20%S/0%S	挤压管	<15	+15%SI~-12.5%S	±12.5%S	热精整管	>2.4~4.6	+35%/-0	
				≥15	+20%SI~-15%S			>3.8~4.6	+33%/-0	
			冷拔(轧)管	≤3	±14%S	+12.5S~-10%S		>4.6	+28%/-0	
				>3	+12.5S~-10%S	±10%S		冷精整管	外径≤38.1mm	+20%/-0
									≥50.8, SD≤5%	+22.5S%/-12.5S%
									SD>5%	+15.0S%/-12.5S%
	冷拔(轧)热交换器管， 正公差交货									

DIN17456				DIN17458			ASTM A789/A789M	
外径偏差 (mm)	外径	公差等级	允许偏差	外径	公差等级	允许偏差	外径	允许偏差
	da≤219.1	D2	±1%, 最小±0.5mm	da≤219.1	D2	±1%, 最小±0.5mm	≤12.7	±13
		D3	±0.75%, 最小±0.3mm		D3	±0.75%, 最小±0.3mm	>12.7~38.1	±0.13
		D4	±0.5%, 最小±0.1mm		D4	±0.5%, 最小±0.1mm	>38.1~88.9 >88.9~139.7 >139.7~203.2	±0.25 ±0.38 ±0.76
壁厚偏差 (mm)	壁厚	公差等级	允许偏差	壁厚	公差等级	允许偏差	外径	壁厚允许偏差★
	da≤219.1	T3	±10%, 最小±0.2mm	da≤219.1	T3	±10%, 最小±0.2mm	≤12.7	±15%
		T4	±7.5%, 最小±0.15mm		T4	±7.5%, 最小±0.15mm	>12.7~38.1 >38.1~88.9 >88.9~139.7	±10% ±10% ±10%
							>139.7~203.2	±10%
								★请参阅管的定义及壁厚偏差见标准

STAINLESS STEEL WELDED PIPE SIZE TOLERANCE TABLE

不锈钢焊管尺寸公差对照表

流体输送用不锈钢焊接钢管标准GB/T12771-2008				机械结构用不锈钢焊接标准GB/T12770-2002					
外径允许偏差				外径允许偏差					
类别	外径D	允许偏差		类别	外径	允许偏差			
		较高级	普通级			高级	较高级	普通级	
焊接状态	全部尺寸	±0.5%D或±0.20, 两者取较大值	±0.5%D或±0.20, 两者取较大值	焊接 状态W	<20	±0.13	±0.20	±0.30	
热处理 状态	<40	±0.20	±0.30		≥20~<50	±0.25	±0.40	±0.50	
	≥40~<65	±0.30	±0.40		≥50	±0.6%D	±0.8%D	±1.0%D	
	≥65~<90	±0.40	±0.50		<13	±0.10	±0.20	±0.25	
	≥90~<168.3	±0.80	±1.00		≥13~<25	±0.13	±0.20	±0.40	
	≥168.3~<325	±0.75%D	±1%D		≥25~<40	±0.25	±0.30	±0.60	
	≥325~<610	±0.6%D	±1%D		≥40~<63	±0.30	±0.50	±0.80	
	≥610	±0.6%D	±0.7%D或±10 两者取较大值	热处理 状态T	≥63~<90	±0.51	±0.60	±1.0	
冷拔(轧) 状态、 磨(抛) 光状态	<40	±0.15	±0.20		≥90~<159	±0.64	±0.80	±1.0	
	≥40~<60	±0.20	±0.30		≥159~<300	±0.7%D	±0.8%D	±1.0%D	
	≥60~<100	±0.30	±0.40		≥300~<500	±0.8%D	±1.0%D	±1.25%D	
	≥100~<200	±0.4%D	±0.5%D		≥500	按协议	按协议	按协议	
	≥200	±0.5%D	±0.75%D		>25	±0.10	±0.12	±0.15	
壁厚允许偏差				冷拔(轧) 状态WC、 磨(抛)光 状态 SP	≥25~<40	±0.13	±0.15	±0.18	
壁厚S		壁厚允许偏差			≥40~<50	±0.15	±0.18	±0.20	
≤0.5		±0.10			≥50~<60	±0.18	±0.20	±0.23	
>0.5~1.0		±0.15			≥60~<90	±0.25	±0.28	±0.30	
>1.0~2.0		±0.20			≥90~<100	±0.30	±0.35	±0.40	
>2.0~4.0		±0.30			≥100~<200	按协议	±0.4%D	±0.5%D	
>4.0		±10%S			≥200	按协议	按协议	按协议	
					壁厚允许偏差				
				冷轧钢板(带)或热轧纵剪钢带	钢板(带)料状态		壁厚	允许偏差	
					≤4.0		±10%S		
					>4.0		±10%S		
					≤0.5		±0.05		
					>0.5~1.0		±0.11		
					>1.0~2.0		±0.17		
					>2.0~3.0		±7%S		
					>3.0~4.0		±6%S		
					>4.0~5.0		±5%S		

STEEL PIPE SIZE-SCH INCH CRT

钢管尺寸-SCH英寸对照表

NOMINAL PIPE SIZE		外径	壁厚												
A	B	ASME	SCH10	SCH20	SCH30	STD	SCH40	SCH60	XS	SCH80	SCH100	SCH120	SCH140	SCH160	XXS
15	1/2"	21.3	2.11		2.41	2.77	2.77		3.73	3.73				4.78	7.47
20	3/4"	26.7	2.11		2.41	2.87	2.87		3.91	3.91				5.56	7.82
25	1"	33.4	2.77		2.9	3.38	3.38		4.55	4.55				6.35	9.09
32	1.1/4"	42.2	2.77		2.97	3.56	3.56		4.85	4.85				6.35	9.7
40	1.1/2"	48.3	2.77		3.18	3.68	3.68		5.08	5.08				7.14	10.15
50	2"	60.3	2.77		3.18	3.91	3.91		5.54	5.54				8.74	11.07
65	2.1/2"	73	3.05		4.78	5.16	5.16		7.01	7.01				9.53	14.02
80	3"	88.9	3.05		4.78	5.49	5.49		7.62	7.62				11.13	15.25
90	3.1/2"	101.6	3.05		4.78	5.74	5.74		8.08	8.08					
100	4"	114.3	3.05		4.78	6.02	6.02		8.56	8.56		11.13		13.49	17.12
125	5"	141.3	3.4			6.55	6.55		9.53	9.53		12.7		15.88	19.05
150	6"	168.3	3.4			7.11	7.11		10.97	10.97		14.27		18.26	21.95
200	8"	219.1	3.76	6.35	7.04	8.18	8.18	10.31	12.7	12.7	15.09	18.26	20.62	23.01	22.23
250	10"	273	4.19	6.35	7.8	9.27	9.27	12.7	12.7	15.09	18.26	21.44	25.4	28.68	25.4
300	12"	323.8	4.57	6.35	8.38	9.53	10.31	14.27	12.7	17.48	21.44	25.4	28.58	33.32	25.4
350	14"	355.6	6.35	7.92	9.53	9.53	11.13	15.09	12.7	19.05	23.83	27.79	31.75	35.71	
400	16"	406.4	6.35	7.92	9.53	9.53	12.7	16.66	12.7	21.44	26.19	30.96	36.53	40.19	
450	18"	457.2	6.35	7.92	11.13	9.53	14.27	19.05	12.7	23.19	39.36	34.93	39.67	45.24	
500	20"	508	6.35	9.53	12.7	9.53	15.09	20.62	12.7	26.19	32.54	38.1	44.45	50.01	
550	22"	588.8	6.35	9.53	12.7	9.53	22.23	12.7	28.58	34.93	41.28	47.63	53.98		
600	24"	609.6	6.35	9.53	14.27	9.53	17.48	24.61	12.7	30.96	38.89	46.02	52.37	59.54	
650	26"	660.4	7.92	12.7		9.53			12.7						
700	28"	711.2	7.92	12.7	15.88	9.53			12.7						
750	30"	762	7.92	12.7	15.88	9.53			12.7						
800	32"	812.8	7.92	12.7	15.88	9.53	17.48		12.7						
850	34"	863.6	7.92	12.7	15.88	9.53	17.48		12.7						
900	36"	914.4	7.92	12.7	15.88	9.53	19.05		12.7						
950	28"	965.2				9.53			12.7						
1000	40"	1016				9.53			12.7						
1050	42"	1066.8				9.53			12.7						
1100	44"	1117.6				9.53			12.7						
1150	46"	1168.4				9.53			12.7						
1200	48"	1219.2				9.53			12.7						

STAINLESS STEEL CHEMICAL COMPOSITION TABLE

各国不锈钢化学成分表

无缝不锈钢常用标准常见钢钟化学元素含量														
标准	钢钟	C	Mn	P	S	Si	Cr	Ni	Mo	N	Cu	Ti	Al	Nb
A312	TP304	0.08	2.00	0.045	0.030	1.00	18.0~20.0	8.0~11.0						
	TP304L	0.035	2.00	0.045	0.030	1.00	18.0~20.0	8.0~13.0						
	TP304H	0.04~0.10	2.00	0.045	0.030	1.00	18.0~20.0	8.0~11.0						
	TP310S	0.08	2.00	0.045	0.030	1.00	24.026.0	19.0~22.0	0.75					
	TP316	0.08	2.00	0.045	0.030	1.00	16.0~18.0	11.0~14.0	2.00~3.00					
	TP316L	0.035	2.00	0.045	0.030	1.00	16.0~18.0	10.0~14.0	2.00~3.00					
	TP316H	0.04~0.10	2.00	0.045	0.030	1.00	16.0~18.0	11.0~14.0	2.00~3.00					
	TP321	0.08	2.00	0.045	0.030	1.00	17.0~19.0	9.0~12.0		0.10		5C~0.70		
A312	N0894	0.020	2.00	0.040	0.030	1.00	19.0~23.0	23.0~28.0	4.0~5.0	0.10	1.00~2.00			
	TP3604	0.08	2.00	0.045	0.030	1.00	18.0~20.0	8.0~11.0						
	TP304L	0.035	2.00	0.045	0.030	1.00	18.0~20.0	8.0~12.0						
	TP304H	0.04~0.10	2.00	0.045	0.030	1.00	18.0~20.0	8.0~11.0						
	TP310S	0.08	2.00	0.045	0.030	1.00	24.0~26.0	19.0~22.0						
	TP316	0.08	2.00	0.045	0.030	1.00	16.0~18.0	10.0~14.0	2.00~3.00					
	TP316L	0.035	2.00	0.045	0.030	1.00	16.0~18.0	10.0~14.0	2.00~3.00					
	TP316H	0.04~0.10	2.00	0.045	0.030	1.00	16.0~18.0	11.0~14.0	2.00~3.00					
A269	TP321	0.08	2.00	0.045	0.030	1.00	17.0~19.0	9.0~12.0				5(C+N)~0.70		
	TP304	0.08	2.00	0.045	0.030	1.00	18.0~20.0	8.0~11.0						
	TP304L	0.035	2.00	0.045										