浙江鑫通达特钢制造有限公司

Zhejiang Xintongda Special Steel Manufacturing Co., Ltd.

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鑫通达特钢
XINTONGDA SPECIAL STEEL

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鑫通达特钢为炼油，石油，化工，电站， 采矿，造纸等行业提供流体过程连接解决方案，并提供满足及解决客户严苛工况问题的管道产品。

Xintongda Special Steel provides fluid process connection solutions for oil refining, petroleum, chemical industry, power station, mining, papermaking and other industries, and also provides pipeline products to meet and solve customers' problems under harsh working conditions.

鑫通达特钢
XINTONGDA SPECIAL STEEL

关于我们
ABOUT US

浙江鑫通达特钢制造有限公司位于浙江省丽水市松阳县西屏街道瑞阳大道209号，紧邻E312国道和宁波上海两大世界级港口，交通运输便捷。公司注册资金10000万元，固定资产8000万元，占地面积20000平方米。资信等级“AAA”。公司持有国家质检总局颁发的 A2 类压力管道制造许可证及PED 证书、AD2000证书，并通过了 IS09001 认证、ISO14001认证、ISO45001认证、BV船级社认证、浙江制造品字标认证等。于2021年获得省高新技术企业及省科技型企业。

本公司拥有13项发明专利及实用新型专利，是一家集冶炼、穿孔、拉管为一体的不锈钢制造企业。公司主要致力于双相钢2205(S22053/S31803)、超级双相钢2507 （S25073/S32750)、S27603、超级奥氏体特种不锈钢904L、317L、316Ti、347H、310S、S30815、S31254（254SMO）、314，合金600、625、800、800H、825、1.4529(926)等材质无缝圆管、方管和精轧管的生产与销售。公司常备（304/304L、316L、310S、904L、254SMO、2205、2507等材质)无缝管库存10,000吨以上，可定制切割。

旗下子公司“福建腾奇管业科技有限公司”位于福建省宁德市周宁县李墩工业园区。公司注册资金1580万元，占地面积20700.43平方米。子公司配备年产15000吨不锈钢无缝管生产线，可根据客户需求，定制生产各种材质大口径不锈钢无缝管（可生产最大外径尺寸Φ1016mm）。

公司产品符合GB/14976、GB13296、GB/21833等国家标准和美标ASTM/ASME、日标 JIS、德标 DIN、欧标EN、俄罗斯GOST等国际标准。

公司全体员工与时俱进，不断创新，以振兴民族工业为已任，为提升我国装备制造业水平尽一份力。以质量求生存，以技术创新求发展，用户的满意是我们永远的追求。

Zhejiang Xintongda Special Steel Manufacturing Co.,Ltd. is located at Songyang County,Zhejiang Province of China.

More than 30-year history manufacturer in materials of austenitic stainless steel 304, 304L, 316L, 310S, 904L, 316Ti, 317L, 347H, 321, 309S, 314, S30815(253MA), UNS S31254, duplex and super duplex stainless steel UNS S31803, UNS S32205, UNS S32750, UNS S32760, nickle alloy Inconel 800(UNS N08800), 800H(UNS N08810), 825(UNS N08825), 600(UNS N06600), 625(UNS N06625) , Monel 400 (UNS N04400), hastelloy C-276, ect.

Up to now, we've passed the certificates of PED, AD2000, GOST, BV, ISO9001, ISO14001, ISO45001 etc.

XTD is a comprehensive enterprise which focuses on smelting, piercing, and pipe production, and has 13 invention patents and utility model patents. We have more than 20 cold-drawn and cold-rolled production machines which can achieve about 25,000 annual output. Another subsdiary and prodcution base is in Fujian Province. It is specialized in bigger OD pipes up to 1020mm. Over 10,000 tons ready stocks are kept in our warehouse, which can shorten the delivery time. Two factories and a large warehouse can meet the daily production and storage needs.

Our products comply with the standards of ASTM A312, ASTM A213, ASTM A269, ASTM A789, ASTM A790, ASTM B677, ASTM B163, GB/T21833, GB/T13296, GB/T14976., ect.

Size range:
OD: 1/8" to 40" (6--1016mm)
WT: 10S to XXS (1mm--65mm)

" Surviving on quality, developing on benefits, rewarding customers by honesty and trustworthiness" is our motto. We are striving to become a world-class pipe manufacturer, providing high-quality austenitic stainless steel pipe&tube, duplex stainless steel pipe&tube, and nickel alloy pipe&tube to the world.

我们的产品应用于……
OUR PRODUCTS ARE APPLIED TO...

鑫通达特钢
XINTONGDA SPECIAL STEEL

XINTONGDA SPECIAL STEEL

鑫通达特钢为炼油，石油，化工，电站，采矿，造纸等行业提供流体过程连接解决方案，并提供满足及解决客户严苛工况问题的管道产品。

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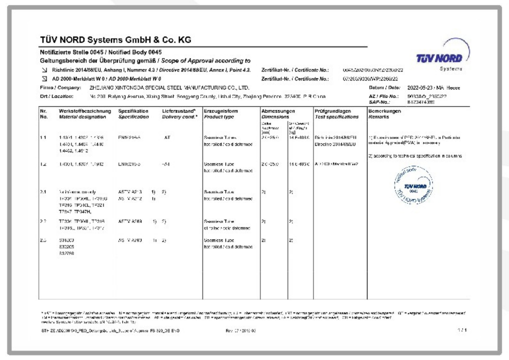
企业资历

CERTIFICATIONS


营业执照

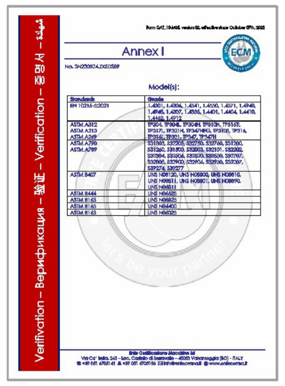

高新技术企业

证书


TÜV NORD Systems GmbH & Co. KG


排污许可证


VERIFICATION


Annex I


ISO9001

QUALITY MANAGEMENT SYSTEM CERTIFICATE


ISO9001

质量管理体系认证证书


CERTIFICATE OF ENVIRONMENTAL MANAGEMENT SYSTEM CERTIFICATION


环境管理体系认证证书


CERTIFICATE OF OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT SYSTEM CERTIFICATION


职业健康安全管理体系认证证书


特种设备型式试验证书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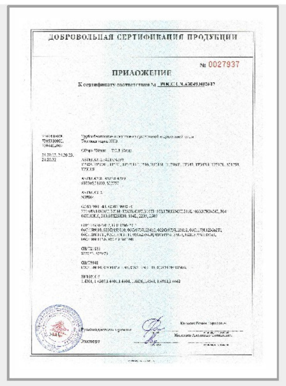
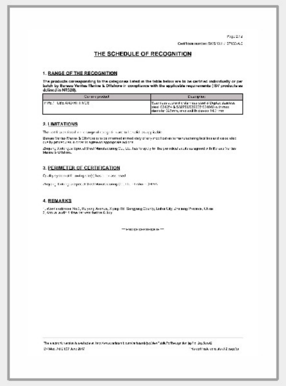

ДОБРОВОЛЬНАЯ СЕРТИФИКАЦИЯ ПРОДУКЦИИ


СЕРТИФИКАТ СООТВЕТСТВИЯ


两化融合管理体系评定证书


浙江省科技型中小企业

证书


THE SCHEDULE OF RECOGNITION


RECOGNITION FOR


TÜV NORD

CERTIFICATE


TÜV NORD

CERTIFICATE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CERTIFICATE


两化融合管理体系评定证书


浙江制造认证证书


中华人民共和国

特种设备制造许可证


浙江制造认证证书

生产设备

Production Equipment

鑫通达特钢
XINTONGDA SPECIAL STEEL

成套剥皮机 **Peeling Machine Set**

LG50冷轧机组 **LG50 Cold-Rolled Machine Set**

冷拔机组Cold-Drawn Machine Set

矫直机组Straightening Machine Set

LG60冷拔机组LG60 Cold-Rolled Machine Set

固溶Solution Treatment

鑫通达投资数亿元新增自动化设备，通过国际化的生产设施，生产出符合国际标准的优质钢材产品。
欲善其工，必先利其器，欲成其事，必先诚其意，精良的设备代表着一个企业拥有强大的生产能力和卓越的质量保证。
先进精密的生产设备保证了产品的质量。规范的管理体系保证了鑫通达的生产加工实力。

Xintongda has invested several hundred millions to additional automation equipments, to produce international standard good-quality steel products by the internationalization of the production facilities.
If we want to do something perfect, we need to prepare the best tools first.
Sophisticated equipments on behalf of an enterprise has a strong production capacity and to ensure excellence quality.
Advanced and sophisticated productive equipments ensure the quality of products.
Standard management system ensures the production and processing strength of Xintongda.

OUR GOAL IS TO UPGRADE THE QUALITY,
OUR GUARANTEE IS TO OPTIMIZE THE DETECTION.

Analyze the chemical composition of the finished product, strictly control the material, test the mechanical and chemical properties of the finished product item by item, as well as eddy current and ultrasonic nondestructive testing according to the requirements of the standard to ensure the quality of the product.

According to the technical conditions and requirements of the product standard, the inspector shall check the inner and outer surface of the finished product, the shape, bending degree, length of the end, outer diameter and wall thickness one by one in order to meet customers' requirements.

鑫通达特钢
XINTONGDA SPECIAL STEEL

我们的目标是提升质量，我们的保证是优化检测。

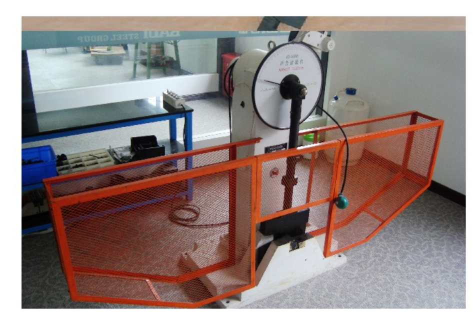
分析成品的化学成分，严格控制材料，测试机械性能并对成品的化学性质进行逐项检测，以及涡流和超声波无损检测按标准要求进行检测，保证产品质量。

检验员应根据产品标准的技术条件和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。


金相显微镜 Metallography Microscope


超声波检测Ultrasonic Testing


水压测试 Hydro Testing


冲击试验Impact Testing Equipment


化学分析Chemical Analysis


化学实验室Chemistry Laboratory


直读光谱仪Direct-reading Spectrometer


万能试验机Universal Testing Machine


产品展示Product display

鑫通达特钢
XINTONGDA SPECIAL STEEL

1.COMMON AUSTENITIC STAINLESS STEEL SEAMLESS PIPE AND TUBE.

Material:
304(06Cr19Ni10), 304L(022Cr19Ni10), 304N(06Cr19Ni10N), 321(06Cr18Ni11Ti), 321H(07Cr19Ni11Ti), 316(06Cr17Ni12Mo2), 316L(022Cr17Ni12Mo2), 316LN(022Cr17Ni12Mo2N), 316Ti(06Cn7Ni12Mo2Ti), 317L(022Cr1Ni13Mo3), 347(06Cr18Ni11Nb), 347H(07Cr18Ni11Nb), 347HFG, 310S(06Cr25Ni20), S30815.

Specifications:
Outside diameter φ 6-1016mm; Wall thickness: 0.5-65mm, maximum length 18000mm.
Special specifications are available as required.

Executive standard:
GB/T14975-2012 stainless 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.
GB 5310-2017 high pressure boiler with seamless steel tube.
GB 9948-2013 oil cracking seamless steel tube.
GB/T12771-2008 fluid conveying stainless steel weWed steel pipe.
ASTM A312 seamless and welded austenitic stainless steel tube.
ASME SA213 boiler, supertneater and heat exchanger use seamless ferrite and austenitic alloy steel tubes.
ASME SA269 boiler, supertieater heat exchanger and condenser with welded austenitic steel tube.
JIS G3463-20062012 boiler and heat exchanger stainless steel pipe.
JIS G3459-2012 with stainless steel pipe.
GOST 9941-81 cold (temperature) processing anti-corrosion seamless steel tube (Russian steel pipe standard)
DIN 2462.1-1981 German stainless steel pipe standard.
DIN 17456-8599 ordinary quality stainless steel seamless steel tube.
DIN 17458-85 stainless steel seamless steel tube with special quality requirements.

2.SUPER AUSTENITIC STAINLESS STEEL SEAMLESS PIPE AND TUBE.

Specifications:
Outside diameter φ 6-1016mm; Wall thickness: 0.5-65mm, maximum tength 18000mm.
Special specifications are available through negotiation.

Material:
N08904 (904L), N08367, S30432, S31042.

Executive standard:
ASTM A312 seamless and welded austenitic stainless steel tube.
ASTM A213 boiler, superheater and heat exchanger use seamless ferrite and austenitic alloy steel tubes.
ASTM A269 general equipment is seamless and welded austenitic stainless steel tube.
ASTM B673, ASTM B674, ASTM B677, ASTM B675, ASTM B676, ASTM B690.

3.DUPLEX PHASE STEEL SEAMLESS PIPE AND TUBE.

Specifications:
Outside diameter 6-1016mm; Wall thickness: 0.5-65mm, maximum length 18000mm.
Special specifications are available through negotiation.
Material:
S31803, S32205,S32250, S32750, S32760, S31500, 32001, S32003, S32304.

Executive standard:
ASTM A789 (ASME SA789) is generally used for seamless and welded ferrite/austenitic stainless steel tubes.
ASTM A790 (ASME SA790) seamless and welded ferritic/austenite stainless steel nominal tube.
ASTM A928 (ASME SA928) filler metal electric welding fenrite/austenite (duplex) stainless steel pipe standard specification GB/T 21832-2008 austenitic - ferritin type duplex stainless steel welded steel pipe.
GB/T 21833.1-2020, GB/T21833.2-2020 austenite - ferritic stainless steel seamless steel tube.

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4.HASTELLOY SEAMLESS TUBE.

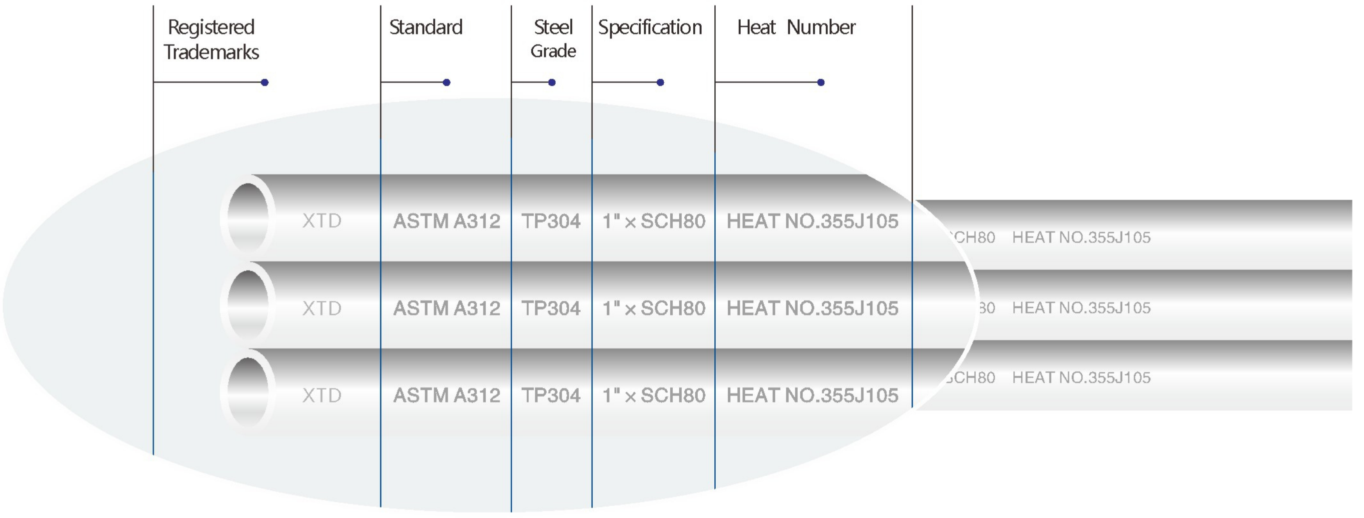
Material:
HASTELLOY C276; C22;
Specifications:
Outside diameter φ9-273.1mm; Wall thickness: 0.5-26mm, maximum length 18000mm.
Executive standard:
ASTM B622 Standard Specification for Seamless Nickel and Nickel-Cobalt Alloy Pipe and Tube.
ASTM B829 Standard specification for general requirements for nickel and nickel alloys seamless pipe and tube.

5.ANTICORROSION ALLOY SEAMLESS TUBE.

Specifications:
Outside diameter φ6-630mm; Wall thickness： 0.5-65mm, maximum length 18000mm.
Special specifications are available through negotiation.

Material:
N04400, N06600, N06601, N06625, N06690, N08800, N08810, N08811, N08825, N08020, N08367.N08028, N10276.

Executive standard:
ASTM B163 Seamless Nickel and Nickel Alloy Condenser and Heat-Exchanger Tubes
ASTM B165 Nickel-Copper Alloy Seamless Pipe and Tube
ASTM B167 Nickel-Chromium-Aluminum Alloys (UNS N06699), Nickel-Chromium-Iron Alloys (UNS N06600, N06601, N06603, N06690, N06693, N06025, N06045, and N06696), Nickel-Chromium-Cobalt-Molybdenum Alloy (UNS N06617), Nickel-Iron-Chromium-T
ASTM B423 Nickel-Iron-Chromium-Molybdenum-Copper Alloy Seamless Pipe and Tube
ASTM B444 Nickel-Chromium-Molybdenum-Columbium Alloys (UNS N06625 and UNS N06852) and Nickel-Chromium-Molybdenum-Silicon Alloy (UNS N06219) Pipe and Tube
ASTM B622 Seamless Nickel and Nickel-Cobalt Alloy Pipe and Tube
ASTM B668 UNS N08028 and N08029 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
ASTM B690 Iron-Nickel-Chromium-Molybdenum Alloy Seamless Pipe and Tube
ASTM B729 Seamless Nickel-Iron-Chromium-Molybdenum-Copper Nickel Alloy Pipe and Tube



COMMON AUSTENITIC STAINLESS STEEL CHEMICAL COMPOSITION.

pattern of organization		GB-T20878	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	0.03	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	Nb:0.15
	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	0.08	1.00	2.00	0.045	0.030	10.00~14.00	16.00~18.00	2.00~3.00	—	—	—
	10	S31603	022Cr17Ni12Mo2	0.03	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	10.00~14.00	16.00~18.00	2.00~3.00	—	—	—
	12	S31668	06Cr17Ni12Mo2Ti	0.08	1.00	2.00	0.045	0.030	10.00~14.00	16.00~18.00	2.00~3.00	—	—	Ti5C~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	0.03	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	0.03	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	022Cr19Ni13Mo3	0.03	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	19.00~13.00	17.00~19.00	—	—	—	Ti5C~0.70
	20	S32169	07Cr19Ni11Ti	0.04~0.10	0.75	2.00	0.030	0.030	19.00~13.00	17.00~120.00	—	—	—	Ti4C~0.60
	21	S34778	06Cr18Ni11Nb	0.08	1.00	2.00	0.045	0.030	9.00~12.00	17.00~19.00	—	—	—	Nb:10C~1.10
	22	S34779	07Cr18Ni11Nb	0.04~0.10	1.00	2.00	0.045	0.030	9.00~12.00	17.00~19.00	—	—	—	Nb:8C~1.10

SUPER AUSTENITIC STAINLESS STEEL CHEMICAL COMPOSITION.

Grade	C	Mn	P	S	Si	Cr	Ni	Mo	Ti	Nb	Ta	N	V	CU	Ce	B	Al
N08904	0.020	2.0	0.045	0.03	1.00	19.0-23.0	23.0-28.0	4.0-5.0	—	—	—	—	—	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	0.08	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	0.04	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	0.04-0.10	2.0	0.045	0.030	1.00	24.0-26.0	19.0-22.0	—	—	0.2-0.6	—	0.15-0.35	—	—	—	—	—

CORROSION RESISTANT ALLOY CHEMICAL COMPOSITION

Grade	Alloy name	Chemical composition																Pipe standard	Physical properties			
		C	Mn	Si	P	S	Cr	Ni	Mo	Cu	Ti	Al	Fe	Co	V	W	Nb + Ta		strength of extension (Mpa)	yield strength (Mpa)	Elongation (%)	Density
N04400	Monel400	≤0.3	≤2.0	≤0.5	≤0.3	≤0.024		≥63.0		28.0~34.0			≤2.5					B163	≥483	≥193	≥35	8.83
N06600	Inconel600	≤0.15	≤1.0	≤0.5		≤0.015	14.1~17.0	≥72.0		≤0.5			6.0-10.0					B163	≥552	≥241	≥30	8.43
N06601	Inconel601	≤0.1	≤1.0	≤0.5		≤0.015	21.0~25.0	58.0~63.0		≤1.0		1.0~1.7	remainder					B163	≥552	≥207	≥30	8.11
N06690	Inconel690	≤0.05	≤0.5	≤0.5		≤0.015	27.0~31.0	>58.0		≤0.5			7.0~11.0					B163	≥586	≥241	≥30	9.2
N08800	Inconel800	≤0.10	≤1.5	≤1.0		≤0.015	19.0~23.0	30.0~35.0		≤0.75	0.15~0.60	0.15~0.60	≥39.5					B163	≥517	≥207	≥30	7.94
N08825	Inconel825	≤0.05	≤1.0	≤0.5		≤0.03	19.5~23.5	38.0~46.0	2.5~3.5	1.5~3.0	1.6~1.2	≤0.2	≥22					B423	≥517	≥172	≥30	8.14
N08221		≤0.025	≤1.0	≤0.5		≤0.03	20.0~22.0	39.0~46.0	5.0~6.5	1.5~3.0	0.6-1.0	≤0.2	≥22					B423	≥545	≥234	≥30	
N08020	Inconel020	≤0.07	≤2.00	≤1.00	≤0.045	≤0.035	19.00~21.00	32.0~38.00	2.00~3.00				remainder				8C-1	B729	≥550	≥240	≥30	8.08
N08810	Inconel810H	0.05~0.10	≤1.5	≤1.0		≤0.015	19.0~23.0	30.0~35.0		≤0.75	0.15~0.60	0.150.60	≥39.5					B163	≥448	≥172	≥30	8.0
N08811	Inconel800HT	0.06~0.10	≤1.5	≤1.0		≤0.015	19.0~23.0	30.0~35.0		≤0.75	0.25-0.6	0.25-0.6	≥39.5					B163	≥448	≥172	≥30	
N10276	Hastelloy C-276	≤0.010	≤1.0	≤0.08	≤0.04	≤0.03	14.5~16.5	remainder	15.0~17.0				4.0~7.0	≤2.5	≤0.35	3.0~4.5		B622	≥690	≥283	≥40	8.89
N06022	Hastelloy C-22	≤0.015	≤0.50	≤0.08	≤0.02	≤0.02	20.0~22.5	remainder	12.5~14.5				2.0-6.0	≤2.5	≤0.35	2.5~3.5		B622	≥690	≥310	≥45	8.7
N06255	Inconel622	≤0.03	≤1.0	≤1.0	≤0.03	≤0.03	23.0~26.0	47.0~52.0	6.0~9.0	≤1.2	≤0.69		remainder			≤3.0		B622	≥586	≥221	≥40	

Grade	Alloy name	C	Mn	Si	P	S	Cr	Ni	Mo	Cu	Ti	Al	Fe	Co	V	W	Nb + Ta	Cb	Ta	B
N06625	Inconel625	≤0.10	≤0.50	≤0.50	≤0.15	≤0.15	20.0 - 23.0	≥58.0	8.0-10.0		≤0.40	≤0.40	≤5.0	≤1.0						
N07718	Inconel718	≤0.08	≤0.35	≤0.35	≤0.015	≤0.015	17.0-21.0	50.0-55.0	2.8-3.30	≤0.3	0.65-1.15	0.20-0.80	Rem	≤1.0			3.15 -4.15	4.75-5.50	≤0.05	≤0.006

DUAL PHASE TOUGHENING COMPOSITION

Type	UNS	Chemical composition						Mechanical property		
		C≤	Cr	Ni	Mo	Cu	N	≥ksi (Mpa)	≥ksi (Mpa)	Elongation
Low alloy type	S31500	0.03	18.0-19.0	4.3-5.2	2.5-3.0	—	0.05-0.10	92(630)	64(440)	30
	S32001	0.03	19.5-21.5	1.0-3.0	≤0.60	≤1.00	0.05-0.17	90(620)	65(450)	25
	S32003	0.03	19.5-22.5	3.0-4.0	1.5-2.0	—	0.14-0.20	90(620)	65(450)	25
	S32304	0.03	21.5-24.5	3.0-5.5	0.05-0.60	0.05-0.60	0.05-0.20	87(600)	58(400)	25
Type in the alloy	S31803	0.03	21.0-23.0	4.5-6.5	2.5-3.5	—	0.08-0.20	90(620)	65(450)	25
	S32205	0.03	22.0-23.0	4.5-6.5	3.0-3.5	—	0.14-0.20	95(655)	70(485)	25
High alloy type	S32550	0.04	24.0-27.0	4.5- 6.5	2.9 - 3.9	1.5-2.5	0.10-0.25	110(760)	80(550)	15
Super DSS	S32750	0.03	24.0-26.0	6.0-8.0	3.0-5.0	≤0.5	0.24-0.32	116(800)	80(550)	15
	S32760	0.05	24.0-26.0	6.0-8.0	3.0 -4.0	0.5-1.0	0.20-0.30	109(750)	80(550)	25

CHEMICAL COMPOSITION OF HASTELLOY ALLOY

HASTELLOY CHEMICAL COMPOSITION														
	Ni	Cr	Mo	Fe	C	Si	Co	Mn	P	S	W	V	Cu	Nb+Ta
N10665(B-2)	remainder	≤1.0	26.0~30	≤2.0	≤0.02	≤0.10	≤1.0	≤1.0	≤0.04	≤0.03	—	—	—	—
N10276(C-276)	remainder	14.5 ~16.5	15.0~17.0	4.0~7.0	≤0.01	≤0.08	≤2.5	≤1.0	≤0.04	≤0.03	3.5-4.5	≤0.35	—	—
N06007(G-3)	remainder	21.0 ~23.5	5.5-7.5	18.0~21	≤0.05	≤1.0	≤2.5	1.0-2.0	≤0.04	≤0.03	≤1.0	—	1.5-2.5	1.75-2.5

鑫通达特钢
XINTONGDA SPECIAL STEEL

COMPARISON TABLE FOR CHINESE AND FOREIGN STAINLESS STEEL GRADES

Serial number in this standard	GB/T 20878-2007			ASTM A959-09	JIS G 4303-2005 JIS G 4311-1991	ISO/TS 15510:2003 ISO 4955:2005	EN10088;1-2005	GOST 5632-2014
	Uniform digital code	New grade	Old grade					
1	S30210	12Cr18Ni9	1Cr18Ni9	S30200, 302	SUS302	X10CrNi18-8	X10CrNi18-8, 1.4310	12X18H9
2	S30408	06Cr19Ni10	0Cr18Ni9	S30400, 304	SUS304	X5CrNi 18-10	X5CrNi18-10, 1.4301	08X18H10
3	S30403	022Cr19Ni10	00Cr19Ni10	S30403, 304L	SUS304L	X2CrNi19-11	X2CrNi19-11, 1.4306	03X18H10
4	S30458	06Cr19Ni10N	0Cr19Ni9N	S30451, 304N	SUS304N1	X5CrNiN 19-9	X5CrNiN19-9, 1.4315	—
5	S30478	06Cr19Ni9NbN	0Cr19Ni10NbN	S30452, XM-21	SUS304N2	—	—	—
6	S30453	022Cr19Ni10N	00Cr18Ni10N	S30453, 304LN	SUS304LN	X2Cr1NiN18-9	X2CrNiN 18-10, 1.4311	—
7	S30908	06Cr23Ni13	0Cr23Ni13	S30908, 309S	SUS309S	X12CrNi 23-13	X12CrNi 23-13, 1.4833	10X23H13
8	S31008	06Cr25Ni20	0Cr25Ni20	S31008, 310S	SUS310S	X12CrNi 23-13	X12CrNi 23-12, 1.4845	10X23H18
9	S31608	06Cr17Ni12Mo2	0Cr17Ni12Mo2	S31600, 316	SUS316	X5CrNiMo 17-12-2	X5CrNiMMo17-12-2, 1.4401	—
10	S31603	022Cr17Ni12Mo2	00Cr17Ni14Mo2	S31603, 316L	SUS316L	X2CrNiMo 17-12-2	X2CrNiMo17-12-2, 1.4404	03X17H14M2
11	S31609	07Cr17Ni12Mo2	1Cr17Ni12Mo2	S31609, 316H	—	—	X3CrNiMo17-13-3, 1.4436	—
12	S31668	06Cr17Ni12Mo2Ti	0Cr18Ni12Mo3Ti	S31635, 316Ti	SUS316Ti	X6CrNiMoTi17-12-2	X6CrNiMoTil7-12-2, 1.4571	08X17H13M2T
13	S31658	06Cr17Ni12Mo2N	0Cr17Ni12Mo2N	S31651, 316N	SUS316N	SUS316N	—	—
14	S31653	022Cr17Ni12Mo2N	00Cr17Ni13Mo2N	S31653, 316LN	SUS316LN	X2CrNiMoN 17-12-2	X2CrNiMoN17-13-3, 1.4429	—
15	S31688	06Cr18Ni12Mo2Cu2	06Cr18Ni12Mo2Cu2	—	SUS316J1	—	—	—
16	S31683	022Cr18Ni14Mo2Cu2	00Cr18Ni14Mo2Cu2	—	SUS316J1L	—	—	—
17	S31708	06Cr19Ni13Mo3	0Cr19Ni13Mo3	S31700, 317	SUS317	—	X5CrNiMo 17-13, 1.4449	—
18	S31703	022Cr19Ni13Mo3	00Cr19Ni13Mo3	S31703, 317L	SUS317L	X2CrNiMo 19-14-4	X2CrNiMo18-15-4, 1.4438	03X16H15M3
19	S32168	06Cr18Ni11Ti	0Cr18Ni10Ti	S32100, 321	SUS321	X6CrNiTi 18-10	X6CrNiTi18-10, 1.4541	09X18H10T
20	S32169	07Cr19Ni11Ti	1Cr18Ni11Ti	S32109, 321H	—	X7CrNiTi 18-10	X8CrNiTi 18-10, 1.4878	12X18H10T
21	S34778	06Cr18Ni11Nb	0Cr18Ni11Nb	S34700, 347	SUS347	X6CrNiNb 18-10	X6CrNiNb 18-10， 1.4550	08X18H12Б
22	S34779	07Cr18Ni11Nb	1Cr19Ni11Nb	S34709, 347H	SUS347H	X7CrNiNb18-10	X7CrNiNb18-10, 1.4912	—
23	S11348	06Cr13Al	0Cr13A1	S40500, 405	SUS405	X6CrAl 13	X6CrAl 13, 1.4002	—
24	S11510	10Cr15	1Cr15	S42900, 429	—	—	—	—
25	S11710	10Cr17	1Cr17	S43000	SUS430	X6Cr17	X6Cr17, 1.4016	12X17
26	S11863	022Cr18Ti	00Cr17	S43035	SUS 430LX	X3CrTi 17	X6CrTi17, 1.4510	08X17T
27	S11972	019Cr19Mo2NbTi	00Cr18Mo2	S44400, 444	SUS444	X2CrMoTi18-2	X2CrMoTi18-2, 1.4521	—
28	S41008	06Cr13	0Cr13	S41008, 410S	—	X6Cr13	X6Cr13, 1.4000	08X13
29	S41010	12Cr13	1Cr13	S4100, 410	SUS410	X12Cr13	X12Cr13, 1.4006	12X13

外径尺寸和壁厚表(美标)ANSIB36.10、B36.19M
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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	5.16	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	7.11
8	200	219.1	2.77	3.76	—	6.35	7.04	8.18	8.18	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	—

鑫通达特钢
XINTONGDA SPECIAL STEEL

外径尺寸和壁厚表(美标)ANSIB36.10、B36.19M
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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	SCH160	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	17.12
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	4049	—
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 DIFFERENT STANDARD TOLERANCE

SIZE/MM SPECIFICATION	OD(D) SIZE	PERMISSIBLE VARIATION	THICKNESS(S) SIZE	PERMISSIBLE VARIATION	LENGTH(L) SIZE	PERMISSIBLE VARIATION
JIS G3463	D<40	±0.25	D<40,S<2 D<40,S>2	+4.0/-0 +22%/-0	D≤50,L≤7	+7/-0
	40-50		D>40	+22%/-0	D≤50,L>7	each 3m increase in length, add 3mm 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				
DIN17456 DIN17458	D2 class	±1.0%min ±0.5mm	T3 class	±10%min ±0.2mm	D≤40,L<1M	+1/-0
					D≤40,L1-2M	+2/-0
					D≤40,L2-3M	+3/-0
					D≤40,L3-4M	+4/-0
	D3 class D4 class	In special cases: ±0.75%min,±0.3mm 0.5%min,±0.1mm	T4 class	In special cases: ±7.5%min ±0.15mm	D≤40,L4-8M	+5/-0
					40<D<168, L≤6M	+5/-0
					40<D<168, L>6M	+10/-0
					D>168	+10/-0
ASTM A511-04 COLD-FINISHED	D<12.7	±0.13		±15%		+3.2/-0
	12.7-38.1			±10%		+4.8/-0
	38.1-88.91	±0.25				
	88.91-139.7	±0.38				
	139.7-203.2	±0.76				
	203.2-219.8	±1.14				
	219.8-323.85	±1.57				
ASTM A511-04 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	±12.5%		

鑫通达特钢
XINTONGDA SPECIAL STEEL

COMPRISION OF DIFFERENT STANDARD TOLERANCE

SIZE/MM SPECIFICATION	OD(D) SIZE	PERMISSIBLE VARIATION		THICKNESS(S) SIZE	PERMISSIBLE VARIATION		LENGTH(L) SIZE	PERMISSIBLE VARIATION	
		Common	High					Common	High
GB/T 14975-2002	10-30	±0.3	±0.2	S≤3	±14%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	S>3	12.5%-10%S	±10%S	L3 level	0-5	
GB/T 14976-2012	6-10	±0.2	±0.15	S≤3	±12%S	±10%S		+22%S/0	+20%S/0
	10-30	±0.3	±0.2						
	30-50	±0.4	±0.3						
	50-219	±0.85%D	±0.75D	S>3	12.5%-10%S				
	D>219	±0.9%D	±0.8%D						
GB13296-2013	D≤25	±0.1		D≤38	±10%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		D>38	±11%S				
	100-159	+0.38/-0.64							
	D>159	±0.5%D							
ASTM A213	D<25.4	±0.10		D=38.1	+20%/-0		D<50.8	+3.0/-0	
	25.4-38.1	±0.15		D≥38.1	+22%/-0				
	38.1-50.8	±0.20							
	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	
	12.7-38.1	±0.13			±10%			3.2	
	38.1-88.9	±0.25						4.8	
	88.9-139.7	±0.38						4.8	
	139.7-203.2	±0.76						4.8	
	203.3-304.8	±1.01						4.8	
	203.2-355.6	±1.26						4.8	
ASTM A312	D<48.26	+0.40-0.80			Nominal 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							
JIS G3459	D<30	±0.3		S<2	±0.2				
	D>30	±1%		S>2	±10%				

TEST ITEMS OF COMMON PRODUCT STANDARDS.

Standard	chemistry	stretch	Impact test -196	Impact test temperature	flatten	spin over	curve	hardness	Corrosion test interg-ranular	Corrosion test Point corrosion	Metallographic examination Inclusions	Metallographic examination grain size	Metallographic examination ferr-olites	ET	UT	HT	size	facade	Remark
GB/T 14976-2012	√	√	X	X	X	X	X	X	√	X	X	X	X	X	X	√	√	√	HT can be replaced by ET or UT
GB 13296-2013	√	√	X	X	√	√	X	X	√	X	X	X	X	X	√	√	√	√	HT can be replaced by ET
GB 5310-2008	√	√	X	√	√	X	√	√	X	X	√	√	X	X	√	√	√	√	
GB 9948-2013	√	√	X	√	√	√	X	√	√	X	X	X	X	X	√	√	√	√	HT can be replaced by ET or MFL
ASTMA312	√	√	X	X	√	X	X	X	X	X	X	X	X	X	X	√	√	√	HT can be replaced by ET or UT
ASTMA213	√	√	X	X	√	√	X	√	X	X	X	√	X	X	√	√	√	√	HT can be replaced by ET
ASTMA269	√	√	X	X	X	√	X	√	X	X	X	X	X	X	X	√	√	√	HT can be replaced by ET or UT
JISG3459	√	√	X	X	√	X	X	X	X	X	X	√	X	X	X	√	√	√	HT can be replaced by ET or UT
JISG3463	√	√	X	X	√	√	X	X	X	X	X	√	X	X	X	√	√	√	HT can be replaced by ET or UT
DN 17456	√	√	X	X	X	X	X	X	X	X	X	X	X	X	X	√	√	√	
DN 17458	√	√	X	X	√	X	X	X	X	X	X	X	X	X	√	√	√	√	Flattening or flaring
GB/T 21833.1-2020	√	√	X	X	√	√	X	√	√	√	X	X	√	√	√	√	√	√	HT can be replaced by ET or UT
GB/T 21833.2-2020	√	√	X	X	√	X	X	√	√	√	X	X	√	√	√	√	√	√	HT can be replaced by ET or UT
ASTMA790	√	√	X	X	√	X	X	√	X	X	X	X	X	X	√	√	√	√	HT can be replaced by ET or UT

SURFACE POLISHING VS ROUGHNESS OF STAINLESS STEEL SEAMLESS TUBE.

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 0.4～0.8um
5	200M /200#	Ra 0.6～1.2um
6	150M /150#	Ra 0.8～1.6um
7	100M /100#	Ra 1.6～3.2um

鑫通达特钢
XINTONGDA SPECIAL STEEL

COMPARISON TABLE OF ROUGHNESS CODE AND PARAMETERS

The standard code	GB1031-2009					ISO	DIN4763(1998)		
charact-erization paramter	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		0.006	0.04	▽▽▽
							0.012	0.063	
	0.025	0.012	0.1		▿ 13	N1	0025	0.10	
							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	
							025	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:
①During use of GB1031-2009, it is recommended to select Ra preferentially within the range of common parameter values for surface roughness (0.025~6.3μm for Ra and 0.100~ 25μm 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 products.

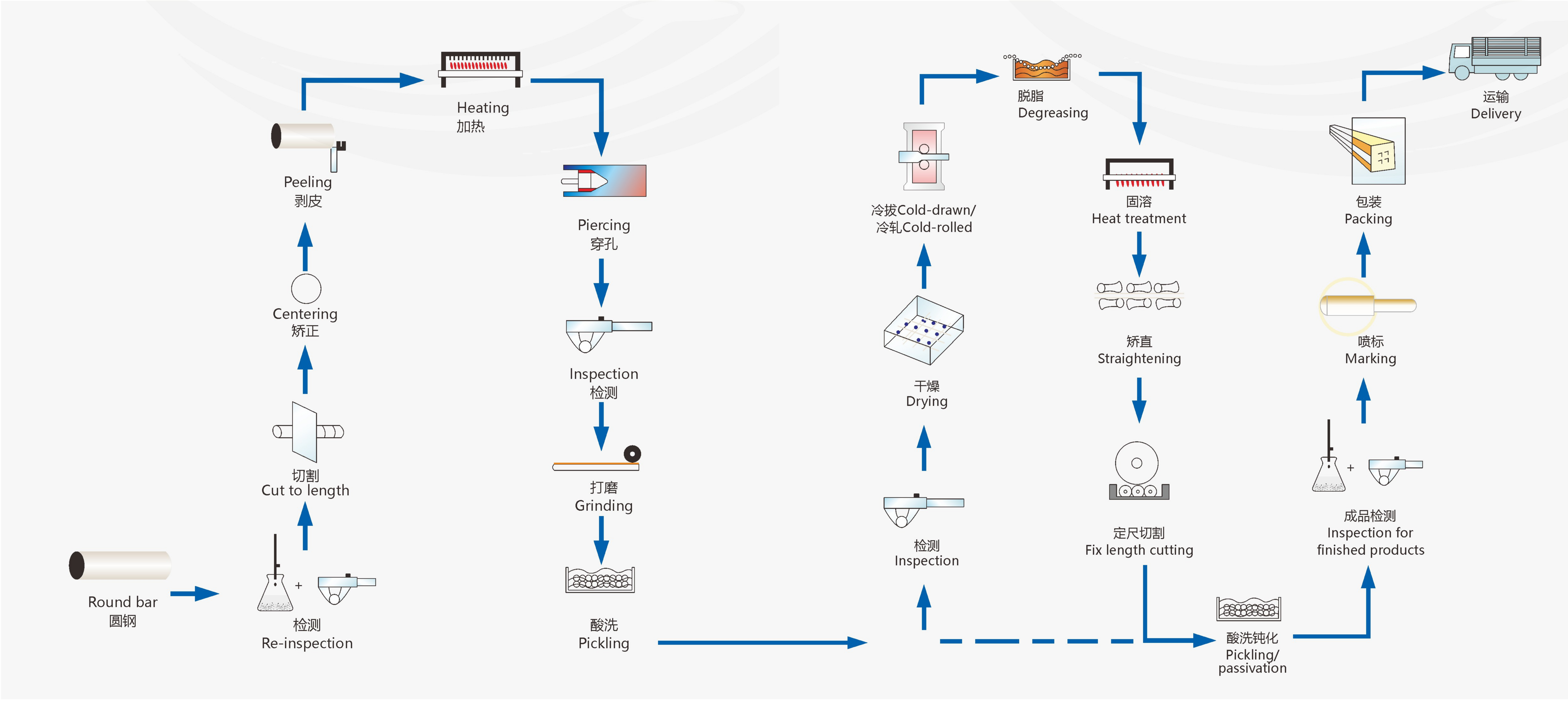
②Type I is often used for general machinery; however, the designer may use lower roughness values (such as Type ||) based on the functional requirements of the parts on those occasions with higher surface quality requirements.

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

④GB1031-2009 is equivalent to ISO1302-1998, GB 1031-83 and ISO 468.

PROCESS FLOWCHART OF SEAMLESS PIPES

无缝管工艺流程图



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