



## 装饰行业用钢

STEEL FOR DECORATIONS INDUSTRY

太钢产品分行业系列册

Products Serial Catalogs Of Tisco For Different Industries

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Taiyuan Iron & Steel(Group) Co., Ltd.



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## 太钢简介

### BRIEF ON TISCO

太原钢铁（集团）有限公司（简称太钢）是中国特大型钢铁联合企业和全球产能最大、工艺技术装备水平最高、品种规格最全的不锈钢企业。经过70年发展，已具备1000万吨以上钢、铁、材的生产能力，其中不锈钢产能达300万吨。

太钢是中国第一炉不锈钢、第一炉硅钢、第一张硅钢片的诞生地。拥有铁矿石等钢铁冶炼原料的采掘与加工、钢铁冶炼、钢铁材料压力加工、冶金设备及备品备件制造等方面先进技术和装备，主要产品有不锈钢、冷轧硅钢片（卷）、热连轧卷板、车轴钢、合金模具钢、军工钢等。产品广泛应用于石油化工、交通运输、建筑装饰、家用电器、医疗食品等行业及神舟系列飞船、嫦娥一号、“东风”系列火箭等高端领域，进入三峡水利、西气东输、奥运场馆等国家重点工程。

太钢的发展目标是，加快建设全球最具竞争力的不锈钢企业，到2010年，以不锈钢为主的品种、质量、成本、研发、节能、环保、效率、服务等各项指标达到国际一流水平，建设具有国际竞争力的大企业集团。

Taiyuan Iron and Steel (Group) Co. Ltd. (TISCO) is a gigantic steel complex in China and a world leading stainless steel producer with largest capacity, full range of products and state of the art facility. With 70 years development, the capacity of pig iron, crude steel and rolled products increased over 10 million ton, including 3 million tons of stainless steel.

TISCO produced the first heat of stainless steel, first heat of silicon steel and first sheet of silicon steel. It is well equipped for mining and beneficiation (such as iron ores), ironmaking, steelmaking, rolling and manufacture of metallurgical equipment and spare parts. Main products include cold rolled stainless and silicon sheet/coil, hot rolled coil, axle steel, die steel and military steel. They are widely used in petrochemical industry, transportation, construction, decoration, home appliance, medical apparatus and food industry, they are also used for high-end application and national key projects as Shenzhou spaceship, Chang'e-1 Moon Detector, Dongfeng rocket series, Three Gorges project, West-East natural gas transmission project and Olympic games facility.

Our goal in development is to expedite building TISCO as the most competitive stainless steel producer in the world, holding the world leading position by 2010 in terms of range, quality, cost, R&D, energy saving, environment protection, efficiency and service. Our target is to create an international enterprises group of strong competitive edges out of Taigang.





#### ◆ 装饰行业用钢概况

建筑装饰行业涉及产品门类广，企业多，是一个即新兴又传统的具有一定技术含量的劳动密集型产业，也是一个与人民生活息息相关的朝阳产业，由于不锈钢本身的优良特性，随着人们生活水平的提高，越来越被广泛的应用。中国约有13亿人口，建筑装饰作为家庭必需生活用品，市场空间极其庞大。

装饰行业为不锈钢市场的主流消费行业，占不锈钢总消费量30%以上，其中90%以上使用冷轧产品。2008年该行业不锈钢消费量为194万吨，是世界上最大的消费国。

太钢依托先进的设备、生产工艺和技术研发能力，为建筑装饰用不锈钢提供全领域的产品。我公司生产的油磨板以磨砂纹路细腻、色泽均匀、表面光洁，广泛应用于城市景观、公交及地铁站台等公共设施，宾馆、写字楼、商场及体育馆建筑幕墙及室内装饰装潢，并应用于世界知名电梯。

2003年以来，太钢依托不锈钢工业园区的加工优势，进一步提高了表面加工能力，拓宽了产品范围，可提供2B、BA、NO.3、NO.4、HL、8K、蚀刻、和纹、柔光、喷砂、镀钛等表面。

产品开发方面，除常用的304、430外，为节约镍资源，太钢高度重视新产品的研发，重点在400系产品上开发了443、439、436L等系列产品，广泛应用于电梯、汽车、厨具等行业的装饰装潢，进一步替代304材料。

在产品规格方面，太钢不锈钢产品更以超宽、超薄、超厚而著名，在全球唯一可生产厚度0.2-8.0mm、宽度300-2000mm冷板（卷），能为消费者提供更多更灵活的选择。

#### ◆ 与行业客户的合作关系

目前，我公司与国内主要从事表面加工（磨砂、抛8K、蚀刻、镀钛等）的大型加工中心及经销用户均建立了长期合作关系，如浙江高鸿、无锡华美、海门森达、江苏大明、昆山建昌、上海日鸿、太原天成等，产品主要定位于电梯、家电、城市景观等高档装饰行业。

#### ◆ Brief on decorations industry steel

Numerous product categories and enterprise quantities are involved with Architectural decorations industry, which is not only a both newly and traditional labor intensive industry with certain technology content, but a sunrise industry closely related to people's life as well as. As increasing of people's living conditions, stainless steel has been applied comprehensively due to its superior characteristics. China has population with 1.3 billion, architectural decoration possess a huge market space because it is taken as essential household living products.

Decoration is one of mainstream consumption industries in stainless steel, accounting for more than 30% of total, among them, cold rolling product is over 90%. In 2008 year, China has been the number one in the world as stainless steel consumed in decorations industry with 1940000 tons.

Depending on advanced equipments, production process and technical development, Tisco provide full range of stainless steel products to architectural decoration industry. Our company's oil grinding plate, with feature of refined frosted lines, uniform color and finishing surface, has been used broadly in city scene, public facilities like public traffic and subway station, hotel, office building, market store, curtain wall in gymnasium/ indoor decoration and famous elevator in the world.

Since 2003 year, Tisco has increased machining capability further and broaden products range under the support of Tisco stainless industrial park advantages, providing surfaces with 2B, BA, NO.3, NO.4, HL, 8K, etching, ripple, lambency, sandblasting, titanizing and so on.

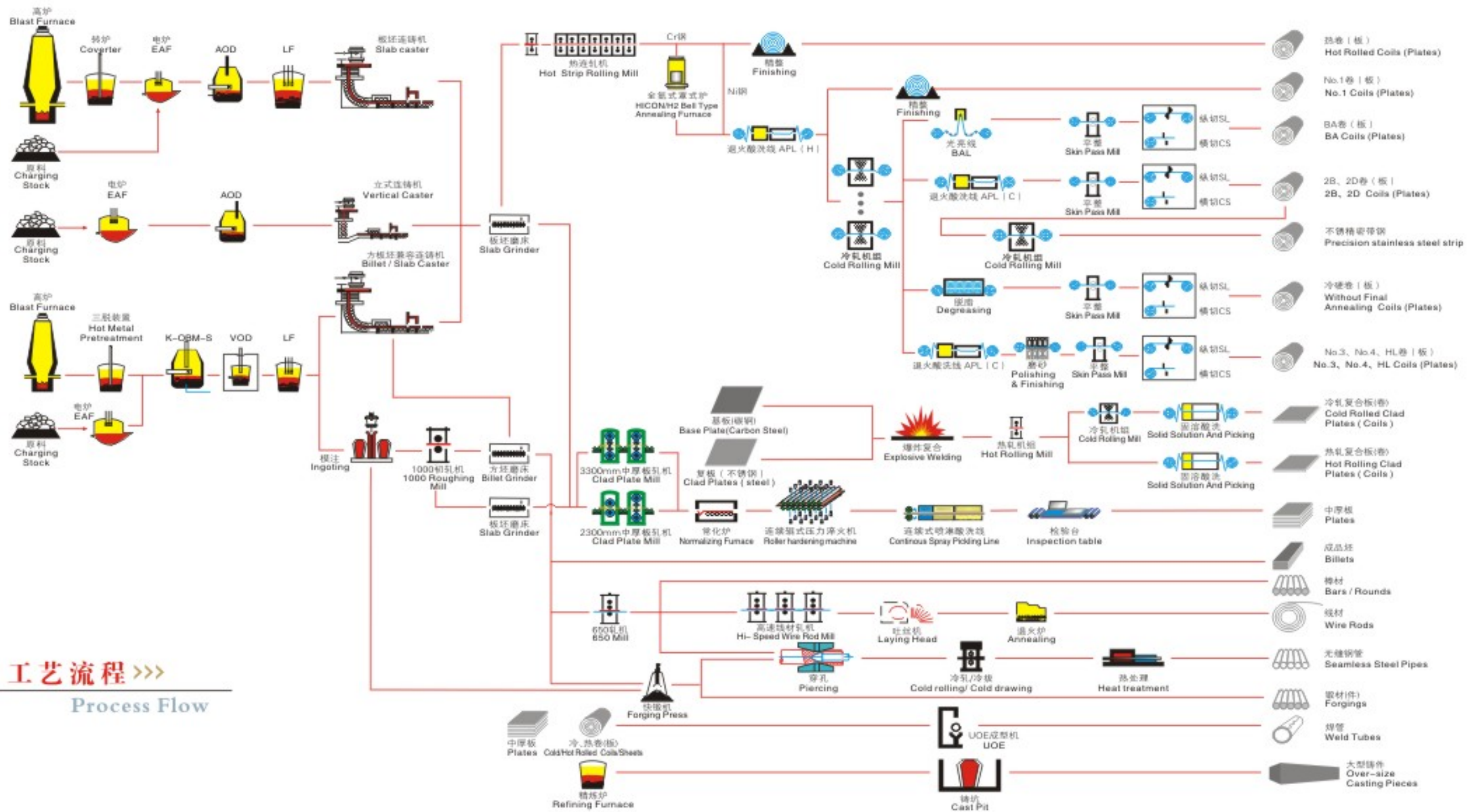
In the field of product development, in order to save nickel (normal 304 and 430 excluded), Tisco attaches highly importance to new products development, focusing on 400 series which led to 443, 439 and 436L products used for elevator, automobile, kitchen utensil, taking the replace of 304.

In the field of product specifications, Tisco's stainless steel is well-known as ultra width, ultra thin and thick, and it is only one that is able to produce cold sheet/coil thickness with 0.2-8.0mm and width with 300-2000mm, providing more flexible choices to consumers.

#### ◆ Cooperative relationship with industrial customers

At present, our company has developed a long term cooperation relationship with large-scale machining centers mainly engaged in surface machining ( frosting, casting 8K, etching, titanizing and so on) as well as distribution customers (for example, ZheJiang GaoHong, Wuxi Huamei, Haimen Senda, Jiangsu Daming, Shanghai Rihong, Taiyuan Tiancheng and so on). Our products are mainly orientated in high-grade decorations like elevator, household appliance and city scene etc.





工艺流程 >>>  
Process Flow





## 研发能力 >>>

### Research and Development

## 国家级实验室 National level laboratory



2007年在国家认定的438家企业技术中心中，太钢技术中心排名第4位。  
Tisco technology center ranks 4th among enterprise-based 438 technology centers accredited by the state in 2007.



扫描电镜  
Scanning Electron Microscope



热模拟试验机  
Thermal Simulating Tester



透射电镜  
Transition Electron Microscope



全自动电子拉伸试验机  
Automatic electronic tensile tester

## 认证、荣誉 >>>

### Certification & Honors



- ◆《高质量不锈钢板材技术开发》获国家科技进步二等奖；
- ◆《AOD炉炉龄、工艺技术开发》等三项成果获山西省科技进步一、二等奖；
- ◆《太钢含氮不锈钢研制》等九项成果获冶金科学技术进步一、二、三等奖；
- ◆《双相不锈钢复合板》等六种产品分别获得国家重点新产品奖、山西省优秀新产品奖；
- ◆不锈钢2B板被科技部认定为国家高新技术产品；
- ◆《AOD炉用氮气进行氮合金化工艺》《VOD冶炼不锈钢高碳区脱氮方法》等专利80余项；
- ◆不锈钢中板通过了TUV认证，并获得了冶金实物质量金杯奖；
- ◆双相不锈钢通过了中国船级社CCS认证。
- ◆“Technical development of high quality stainless steel flat product” won second prize of state technical progresses.
- ◆“AOD campaign, production technology development” and other two won the first and second prizes of Shanxi technical progresses.
- ◆“Production technology and new grade development of Nitrogen-containing stainless steel by TISCO” won second prize of state technical progresses.
- ◆ Duplex stainless steel clad plate and so on six products were honored as among statewide new products and Shanxi great new products, respectively.
- ◆ Stainless steel 2B grade was approved by the Ministry of Science & Technology as the state hi-tech products.
- ◆ More than 80 patents such as “Nitrogen alloying process by nitrogen gas in AOD” and “Denitrification process in the phase of high carbon of stainless steel smelting in VOD”.
- ◆ Stainless steel plate passed TUV examination and was rewarded Golden Cup of physical quality of metallurgical product.
- ◆ Duplex stainless steel passed CCS, China Classification Society, examination.



## 常规产品 &gt;&gt;&gt;

## Conventional Products

钢种 Steel grade	牌号 Grade	规格 (mm) Specifications		单重 Weight t	标准 Standard	主要用途 Application
		厚度 Thickness	宽度 Width			
300系	06Cr19Ni10 (0Cr18Ni9) 304 SUS304 1.4301	0.2-8.0	1000-1300	6-29	GB/T3280 ASTM/ASME JISG4305 EN10088 BSEN10028	通用装饰材料。 General decoration materials.
	304L				ASTM/ASME	用于有焊接要求的装饰部件。 Used for decoration parts required by welding.
	316L 1.4404				ASTM/ASME EN10088 BSEN10028	用于耐腐蚀性要求较高的装饰。 Used for decoration highly required by anticorrosion.
400系	10Cr17 (0-1Cr17) 430 SUS430 1.4016	0.3-8.0	1000-1300	6-29	GB/T3280 ASTM/ASME JISG4305 EN10088 BSEN10028	用于一般腐蚀介质下(空气等)的装饰。 Used for decoration under normal corrosion media (air etc.).
	TTS439 439				Q/太新013-2007 ASTM/ASME	主要用于电梯、厨具、汽车排气系统等。 Mainly used for elevator, kitchen utensil, auto exhausting system etc.
	TTS443 TTS443M JYH21CT				Q/太新012-2007 Q/太新055-2008	主要用于电梯装饰,可全面替代304。 Mainly used for elevator decoration, which substitute 304 entirely.

## 产品介绍 &gt;&gt;&gt;

## Product Introduction

◆ 表面等级  
Surface grade

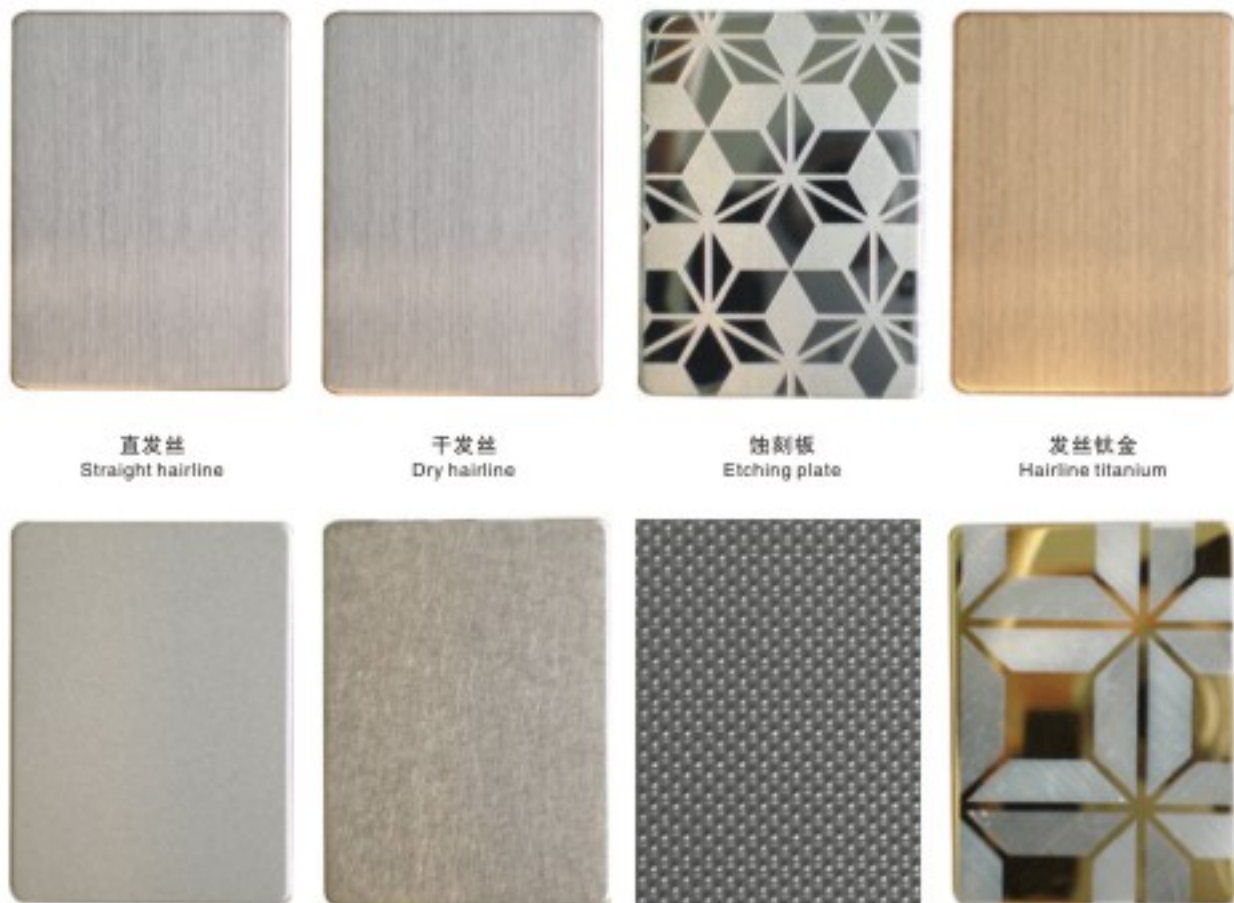
级别 Class	表面描述 Surface description	适用范围 Range of application
2B	冷轧后进行热处理,酸洗或类似处理,最后经平整获得适当的光洁度。 Heat treatment, pickling or similar treatment after cold rolling, and then an appropriate fineness obtained by skin-passing.	可以用于各行业,五金。 Applicable to all walks of life and hardware.
2D	冷轧后进行热处理,酸洗或类似处理,最后经毛面平整获得一定的粗糙度。 Heat treatment, pickling or similar treatment after cold rolling, and then a certain roughness obtained by dull roll skin-passing.	用于表面需喷涂的场所、深冲加工等。 Applicable to the place where need coating and deep punching.
BA	冷轧后,进行光亮热处理。 Brightening heat-treatment after cold rolling.	用于装饰、高反向表面的加工原料等。 Applicable to raw materials of decoration and high opposite surface.
NO.3	用GB2477所规定的粒度为100-120号研磨材料进行抛光修整。 Polishing process by use of grinding material with particle size 100-120 required by GB2477.	装饰。 Decoration.
NO.4	用GB2477所规定的粒度为150-180号研磨材料进行抛光修整。 Polishing process by use of grinding material with particle size 150-180 required by GB2477.	装饰。 Decoration.
HL	用适当粒度的研磨材料抛光,使表面呈连续磨纹。 Polishing by use of grinding material with moderate particle size, which enable surface acquire continuous grinding pattern.	装饰。 Decoration.
2BB	冷轧后不经光亮退火而经特殊工艺处理,接近BA面的一种表面等级。 Instead of brightening annealing, a certain surface grade approaching BA obtained through special processing after cold rolling.	用途与BA板相当。 Application is equivalent to BA plate.



我公司还能提供以下类型的磨砂、蚀刻、镀钛表面的不锈钢。

Our company also provides below stainless steel surface with frosting, etching and titanizing.

主要装饰板面  
Main decorative plated surface



直发丝  
Straight hairline

干发丝  
Dry hairline

蚀刻板  
Etching plate

发丝钛金  
Hairline titanium

## 产品成分、性能 >>>

### Composition and Property of Product

#### ◆ 化学成分 (典型值)

Chemical composition ( Typical value )

牌号 Grade	C	Ni	Cr	P	S	Si	Mn	Mo	其它 Others
304	≤0.08	8.0~11.0	18.0~20.0	≤0.045	≤0.030	≤1.00	≤2.00		
304L	≤0.03	8.0~12.0	18.0~20.0	≤0.045	≤0.030	≤1.00	≤2.00		
316L	≤0.03	10.0~14.0	16.0~18.0	≤0.045	≤0.030	≤1.00	≤2.00	2.0~3.0	
430	≤0.12		16.0~18.0	≤0.04	≤0.02	≤1.00	≤1.00		Nb; 10C~1.0
TTS443	≤0.025		19.5~22.0	≤0.035	≤0.015	≤1.00	≤1.00	≤0.025	Ti+Nb; 0.2+4x (C+N) ≤0.75
TTS439	≤0.03		17.0~19.0	≤0.04	≤0.015	≤1.00	≤1.00		Ti+Nb; 0.20+4 x C ≤Ti+Nb ≤0.75

#### ◆ 机械性能

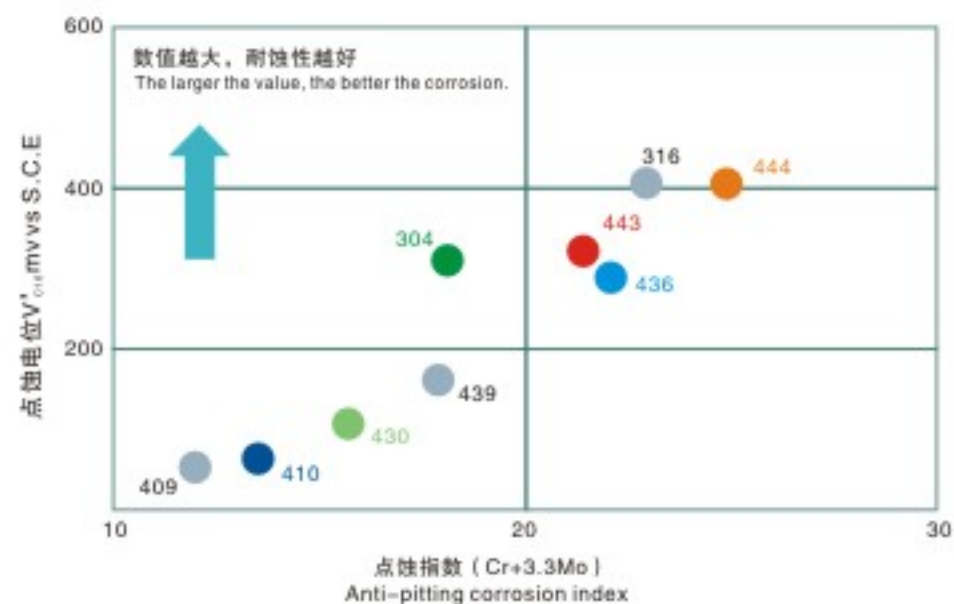
Mechanical property

牌号 Grade	屈服强度 Yield strength R <sub>eL</sub> /MPa	抗拉强度 Tensile strength R <sub>m</sub> /MPa	断后伸长率 Elongation after fracture A/%	硬度值 Hardness		
				HBW	HRB	HV
				不小于 ≥		
				不大于 ≤		
304	205	515	40	201	92	210
	280~330	600~700	50~65		78~88	150~190
304L	170	485	40	201	92	210
	260~380	590~690	50~63		78~90	
316L	170	485	40	217	95	220
	260~340	580~655	50~60		78~90	
430	205	450	22	183	89	200
	280~330	450~500	28~35		72~88	
TTS443	250	430	18			183
	270~325	430~460	36~53			145~160
TTS439	250	450	25		96	230
	270~460	460~680	26~55			140~197

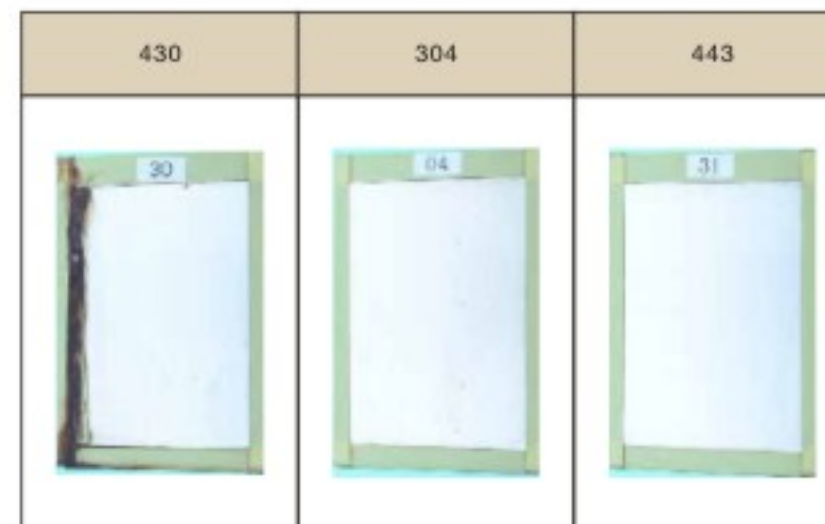
◆ 物理性能  
Physical properties

牌号 Grade	密度 Density (g/cm <sup>3</sup> )	弹性模量 Elastic module (GPa)	线膨胀系数 α Linear expansion coefficient (10 <sup>-6</sup> /°C)			导热系数 Heat conductivity rate (W/(m·°C))		比热 Specific heat (J/(kg·°C))	电阻率 Resistance rate (10 <sup>-6</sup> Ω·cm)	导磁率 Magnetic Inductivity
			0-100°C	0-315°C	0-538°C	100°C	500°C			
			304	7.85	199	16	17			
304L	7.9	199	16.8	17.5	18.3	16	21	500	720	1.54-2.12
316L	8	200	16.5	17.5	18	16	21	470	710	
430	7.72	-	10	10.5	11	25	-	460	600	
439	7.7	200	10.4			24.2		460	600	
443	7.74	204	10.5			22.5		440	580	

◆ 腐蚀性能 - 点蚀  
Anti-pitting corrosion



◆ 盐水喷雾试验  
Salt spray test



600#表面抛光 600# grinding treatment  
5%NaCl, 35°C  
3000h

产品应用 >>>

Application

我公司以上产品，广泛应用于城市景观、路牌、护栏、地铁站台屏蔽门、地铁售票机、检票机、路灯杆、太阳能热水器外壳、建筑幕墙、电梯（电动扶梯）等外部装饰。

The above mentioned product of our company are widely used in city landscape, street nameplate, guardrail, subway platform shield gate, subway ticket vending machine, ticket examining machine, Solar-powered water heater outer covering, construction curtain wall, elevator(escalator) and so on exterior decoration.







建筑幕墙 (304、316L等蚀刻、镀钛)  
Construction curtain wall (304, 316L and so on etching, titanizing)



电梯装饰 (443/NO.4)  
Elevator decoration (443/NO.4)



路灯杆 (304拉丝)  
Road lightpost (304 wiredrawing)



太阳能热水器外壳 (304/BA)  
Solar-powered water heater  
outer covering (304/BA)



卡车装饰  
Truck decoration



公共设施 (430)  
Public utilities (430)



室外护栏  
Outdoor guard rail

## 用户使用指南 >>>

### User Instruction

- ◆ 碳、氮元素低，添加钛、铌等，焊接部耐腐蚀性好；
- ◆ 不易直接采用熔接焊，采用填丝焊较好；
- ◆ 和304相比，热膨胀系数低，热传导率高，焊后变形较小；
- ◆ 尽量降低热输入，否则导致晶粒变大，影响钢板韧性；
- ◆ 气体保护，为防止钢板表面氧化、渗氮，需氩气保护；
- ◆ 防止油脂污染，否则导致渗碳；
- ◆ 最好使用309L焊丝。

◆ Low carbon, nitrogen element, adding titanium, niobium etc, good corrosion resistance in wedding part.

◆ Not easy to take fusion welding directly, welding with filler wire is better.

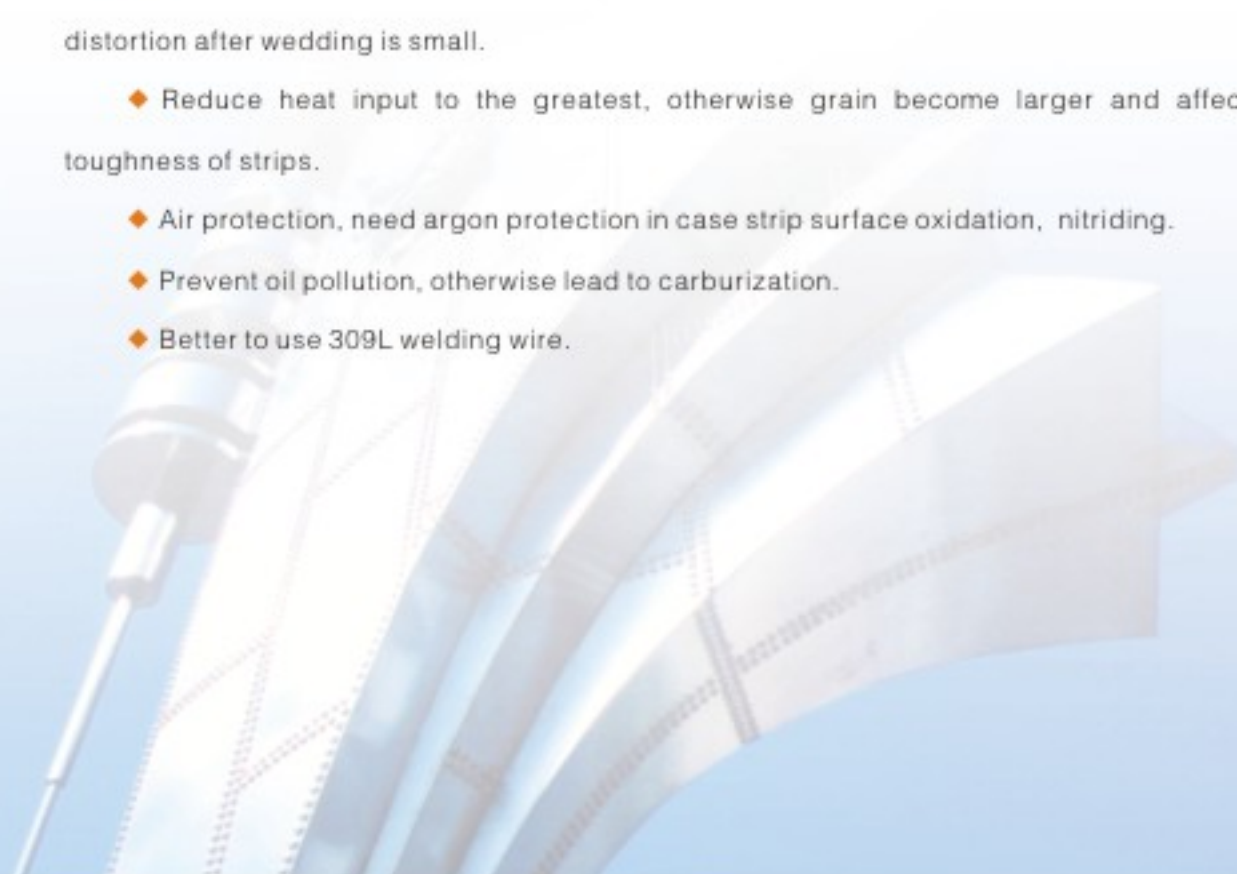
◆ Comparing with 304, Thermal-expansion coefficient is low, thermo conductivity is high, distortion after wedding is small.

◆ Reduce heat input to the greatest, otherwise grain become larger and affect the toughness of strips.

◆ Air protection, need argon protection in case strip surface oxidation, nitriding.

◆ Prevent oil pollution, otherwise lead to carburization.

◆ Better to use 309L welding wire.





## ◆ 不锈钢表面清洗方法

The method of washing stainless steel surface

表面状态 Surface condition	洗涤方法 The washing method
灰尘以及一般污垢 Dust and ordinary dirt	肥皂、弱洗涤剂或温水洗涤 Wash by soap, mild detergent or mild water
标签及贴膜 Label and adhesive film	用温水、弱洗涤剂来擦洗，粘剂成分使用酒精或有机溶剂 Scour by mild water, mild detergent, wash binding agent by alcohol or organic solvent
脂肪、油、润滑油污染 Grease, oil and lubrication oil pollution	用柔和的布或纸擦干以后用中性洗涤剂或氨溶液或专用洗涤药品来洗涤 After wiping by soft cloth or paper, wash by neutral detergent, ammonia solution or special cleaning chemical.
漂白剂以及各种酸附着 Bleacher and all kinds of acid adhesions	立即用水冲洗，用氨或中性碳酸苏打水溶液里浸泡，后用中性洗涤剂或温水洗涤 Flush by water immediately, marinate in ammonia or neutral Carbonated soda water, then wash by neutral cleaner or mild water
有机碳化物附着 Organic carbide adhesion	浸泡在热的中性洗涤剂或氨溶液然后用含弱研磨的洗涤剂洗涤 Marinate in hot neutral cleaner or ammonia solution, then wash by weak-abrasiveness cleaner
指纹 Fingermark	用酒精或有机溶剂（乙醚、苯），用柔软布擦干以后再用水洗涤 After wiping by alcohol or organic solution(aether, benzene), wash by water
彩虹纹 Newton ring	过多使用洗涤剂或油引起，洗涤时用温水中性洗涤剂 Caused by overuse of cleaner or oil, use mild water and neutral cleaner to wash
焊接受热变色 Welding heating color deterioration	用10%硝酸或氢氟酸溶液洗涤以后再用氨水碳酸苏打溶液中和处理然后用清水洗涤 After washing by 10% Nitric acid or Hydrofluoric acid solution, take neutralizing treatment by Ammonia water carbonic acid soda solution, then wash by clean water
表面污染物引起的锈 Rust caused by surface contamination	—使用硝酸（10%）或研磨洗涤剂洗涤 —使用专用洗涤药品 —Wash by Nitric acid（10%）or Attrition detergent —Use special cleaning chemical

## 研发目标 &gt;&gt;&gt;

## Research and Development Target

我公司在该行业未来研发目标，将以400系钢种为主要，重点研发高纯铁素体，以大批量替代304为开发目的，走经济化研发方向。进一步实现439、443产品的系列化，尽快开发出443/BA板，拓展在装饰行业的应用领域；在室外的屋顶、幕墙装饰方面，将进一步开发高铬铁素体不锈钢，如445、446M等，提高400系应用比例。

后期将在天津建成全球最大的光亮板生产线：20万吨/年的BA板生产线，最宽可达1500mm,最厚达到3.0mm,将成为拓展产品宽度，优化304和430 BA板的生产工艺，进一步提升产品质量，提高市场竞争力。

Our company's future research and development target in this industry:

taking 400 series as main product, making emphasis on high purity ferrite, the main purpose is substituting 304 on a large scale, following the direction of economization research and development. Realizing serialization of 439, 443 product further, developing 443/BA plate as soon as possible. Expanding the application area in decoration industry; For the outdoor roof, curtain wall decoration, developing high chromium ferrite stainless steel, for example 445, 446M etc. increasing the application proportion of 400 series.

The largest light stainless sheet producing line will be constructed in late stage in Tianjin: the producing line with the BA sheet output of 20,000 ton per year. The maximum width is 1500 mm, the maximum thickness is 3.0mm and it will be the expanding product width. Optimizing the production process of 304 and 430 BA sheet, upgrading further product quality, improving market competition.



## 服务承诺 >>>

### Service Promise

- 为客户提供个性化成份、性能、包装、卷重、质保书的设计。
- 为客户在选材和加工工艺方面提供技术支持。
- 交货准确及时。
- 对客户异议，在24小时内答复。
  
- Provide for consumers with the personalized designs on composition, properties, package and the quality certificate.
- Technical support to customers in material selection and fabrication.
- Accurate and prompt delivery.
- Response to customer's claim within 24 hours.



太钢加工配送营销网络布局图  
Marketing network of TISCO service centers



- 太钢本部加工配送中心 TISCO base-based service center
- 已建成的加工配送中心 Service center in operation
- 在建中的加工配送中心 Service center under construction
- 规划建立的加工配送中心 Service center under planning

## 合作伙伴 >>>

### Cooperative Partner

Haier



fotile®  
方太厨具

OTIS

Galanz 格兰仕



Schindler



KONE



## 主要业务部门联系方式 &gt;&gt;&gt;

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