



产品说明

Product Description

# 不锈钢型线材

STAINLESS STEEL SECTION & WIRE PRODUCTS



太原钢铁(集团)有限公司  
Taiyuan Iron & Steel (Group) Co., Ltd.



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## 企业使命

用不锈钢智慧创造卓越品质

## 战略目标

坚持做强主业、延伸发展、多元发展、绿色发展、和谐发展  
建设全球最具竞争力的不锈钢企业,成为国内一流、世界著名的大型企业集团

## 核心价值观

以人为本 用户至上 质量兴企 全面开放 不断创新

## 营销理念

为用户提供更全、更好、更快的解决方案  
在长期合作中实现共赢





# 太原钢铁(集团)有限公司

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

太原钢铁(集团)有限公司(简称太钢,英文简称TISCO)始建于1934年,地处汾河之滨龙城太原。

太钢是集铁矿开采和钢铁生产、加工、配送、贸易为一体的特大型钢铁联合企业,也是全球不锈钢行业领军企业,具备年产1200万吨钢(其中450万吨不锈钢)的能力。

太钢以创新引领发展,依托国家级技术中心、先进不锈钢材料国家重点实验室等科技创新平台,形成了以不锈钢、冷轧硅钢、高强韧系列钢材为主的高效节能长寿型产品集群,重点产品应用于石油、化工、造船、集装箱、铁路、汽车、城市轻轨、大型电站、“神舟”系列飞船等重点领域和新兴行业,双相钢、耐热钢、铁路行业用钢、车轴钢等20多个品种国内市场占有率第一,30多个品种填补国内空白、替代进口。

太钢先后荣获“中国工业大奖”、“首届中国政府质量奖提名奖”、“全国质量奖”、“全国循环经济先进单位”、“全国自主创新十强”、“国家技术创新示范企业”、“全国最具社会责任感企业”、“全国模范劳动关系和谐企业”、“全国企业文化建设先进单位”、“全国绿化模范单位”等荣誉称号。

面向未来,太钢将坚持做强主业、延伸发展、多元发展、绿色发展、和谐发展,建设全球最具竞争力的不锈钢企业,成为国际一流的大型企业集团。

Taiyuan Iron & Steel (Group) Co., Ltd. (or TISCO in short) is a super iron and steel giant as well as an leading enterprise in global stainless steel industry, which operates iron ore mining, steel production, processing, distribution and trade.

TISCO was founded in 1934. It has been developing special steel as its trend, where the first ladle of stainless steel, the first piece of hot-rolled silicon steel and the first bulk of electromagnetic pure iron in China were produced. Today, TISCO has full process stainless steel production lines of international first class, i. e. smelting (with hot metal as raw material)—refining—continuous casting—hot rolling—cold rolling. Moreover, it has built its own S&T and innovation platform such as national level Technology Center, National Key Laboratory of advanced stainless steel materials and etc.

TISCO has an annual capacity of 12 million tons (of which 4.5 million tons are stainless steel). It can produce various carbon steel and stainless steel series products, including high quality cold-rolled coil/plate, hot-rolled coil/plate, hot-rolled medium plate, composite steel, rod, wire, seamless tube, welding tube, precise strip, heavy casting and etc. It has several product clusters like stainless steel, silicon steel and high strength high ductility series that feature higher performance, energy efficiency and longer service life, which helps TISCO a stainless steel producer with the fullest range of grades and specifications of products worldwide.

TISCO insists on the strategy of “winning by new product”. Some of its key products have been used in petroleum, chemical, shipbuilding, container, railway, automobile, urban light rail, power generation, “Shenzhou” series spacecrafts and other key sectors and emerging industries. Over 20 steel grades take biggest market share in China. More than 30 varieties have replaced the imported counterparts successfully, of which pen tip steel, high-Mn high-N stainless steel and AP1000 third generation extrusion C type stainless steel for nuclear power satisfied the urgent demands of the markets, contributing significantly to the domestication of key materials.

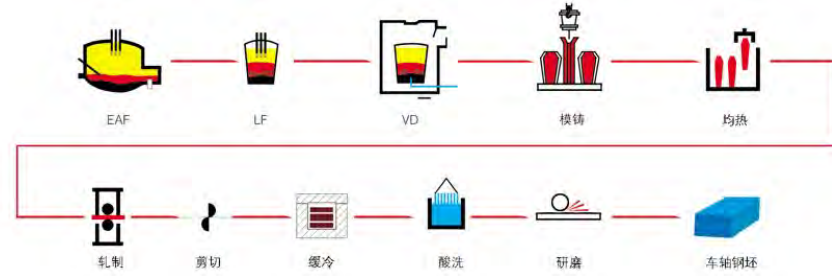
Looking to the future, TISCO will make its main business more competitive while carrying out extensional diversified, green and harmonious development modes, so as to be the most competitive stainless steel producer in the world as well as a worldwide first-class enterprise.



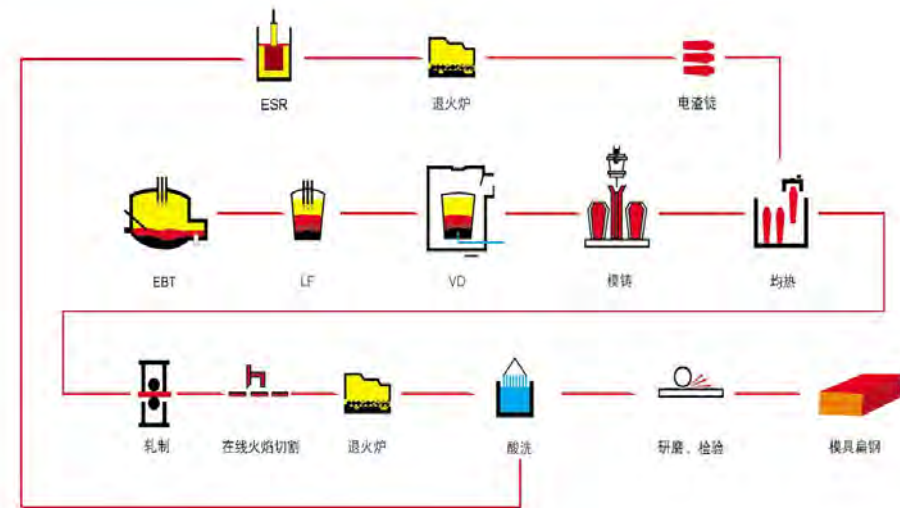


## 工艺流程

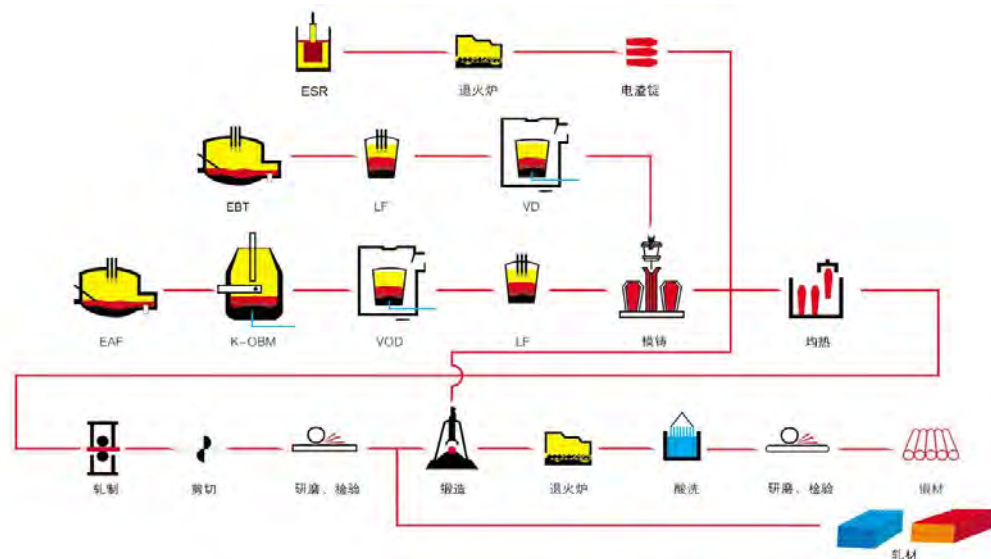
### 车轴钢工艺流程



### 模具扁钢工艺流程



### 不锈钢轧锻材工艺流程



## 装备优势



### 超功率电弧炉

- ★ 采用电炉熔合金,有利于铁水和合金预熔液金属料优化配置;
- ★ 90t, 160t 超功率电炉可适应多种原料结构,成份均匀准确,炉机匹配优越。

The use of EAF for melting alloys optimizes the preparation of hot metal and pre-melting alloys. 90t and 160t ultra-power EAF are capable of charging stock combinations, accurate in the making of homogenous composition and excellent for furnace and machines compatibility.



### 90吨K-OBM-S转炉

- ★ K-OBM-S 炉容比大、供氧强度高、冶炼周期短;
- ★ 配备智能炼钢系统,成分命中率;
- ★ 配备自动挡渣装置,为VOD提供高纯净度钢水。

K-OBM-S, featured of its big furnace volume, dense oxygen blowing and short smelting period, is capable of providing clean and pure melt steel to VOD with automatic slag stopping device equipped. It is designed with intelligent steel smelting system so it can achieve high hitting rate.



### 90吨VOD炉

- ★ 真空度高,强搅拌能力大:真空度 $\leq 0.5\text{Torr}$ ;搅拌能力  $1200\text{L}^3/\text{h}$ ;
- ★ 钢质纯净度高:  $[\text{O}] \leq 25\text{ppm}$ 、 $[\text{H}] \leq 2\text{ppm}$ ;  $\text{S} \leq 0.005\%$ ;
- $\Sigma(\text{Pb} + \text{As} + \text{Sn} + \text{Sb} + \text{Bi}) \leq 0.01\%$ ;
- ★ 适合超低碳、氮不锈钢生产:  $\text{C} + \text{N} \leq 100\text{ppm}$ 。

High vacuum capacity, power fur mixing performance, vacuumde-gree $\leq 0.5\text{Torr}$ , mixing capacity  $1200\text{L}^3/\text{h}$ ; High in steel cleanliness  $[\text{C}] \leq 25\text{ppm}$ 、 $[\text{H}] \leq 2\text{ppm}$ ;  $\text{S} \leq 0.005\%$ ;  $\Sigma(\text{Pb} + \text{As} + \text{Sn} + \text{Sb} + \text{Bi}) \leq 0.01\%$ ; It is highly suitable for ultra-low carbon, nitrogen stainless steel production,  $\text{C} + \text{N} \leq 100\text{ppm}$ .



## 装备优势



### ■直弧型方板坯兼容连铸机和宽幅板坯连铸机

- ★国内唯一的一台方、板坯兼容连铸机和国际上最宽的不锈钢板坯连铸机。采用结晶器液面自动控制技术,配备电磁搅拌装置;
- ★采用二冷动态配水、气雾冷却、液压振动等技术,铸坯冷却均匀;采用轻压下技术,铸坯内部组织致密。

It is the first only slab and bloom combined caster in China and the widest stainless steel caster in the world, using the automatic mold level control technology, equipped with electric magnetic stirrer (EMS). The bloom is cooled homogenously by the secondary dynamic cooling water, air-mist cooling, hydraulic vibrator, and is metallographically compat by applying soften reduction technology.



### ■线材减定径轧机

- ★线材减定径轧机,意大利 Daniel 公司,最高轧制速度 120m/s,产品精度  $\pm 0.1\text{mm}$ 。

Wire reduction and sizing mill, Daniel Company, Italy, maximum rolling speed 120m/s, product accuracy  $\pm 0.1\text{ mm}$ .



### ■棒材减定径轧机轧机

- ★棒材减定径轧机轧机,德国 Kocks 公司,规格 16-80mm,尺寸精度  $\pm 0.2\text{mm}$ 。

Bar Reducing and sizing mill, Kocks Company, Germany, 16-80mm, dimension accuracy  $\pm 0.2\text{ mm}$ .

## 装备优势

### ■高速线材轧机

- ★线材轧机为椭圆-圆孔系平立交替无扭轧机;
- ★太钢线材轧制采用 22 架轧制,产品压缩比大,组织致密。精轧机采用摩根轧制技术,线材尺寸精度高,椭圆度小,表面质量好。

TISCO' S 22-stand mill for the rolling of wire rod is of greater reduction capacity so the product is compact in structure; Morgan rolling technology applied to finishing mills creates high dimension accuracy, minimal ovality and excellent surface quality of the products.

### ■吐丝机

- ★吐丝机从意大利 POMMNI 引进,轴线与水平成  $10^\circ$  角,成圈直径  $\phi 1050\text{mm}$ 。

Imported from POMMNI, Italy with  $10^\circ$  angle between axis and horizontal, loop laying of  $\phi 1050\text{mm}$ .

### ■PF 线

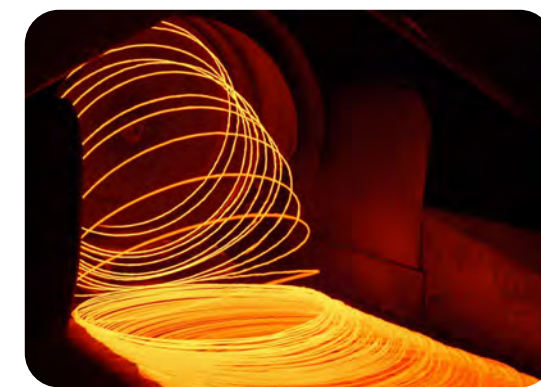
- ★先进的线材运输 PF 线,可以保证产品不被擦伤。且可以为后工序提供良好盘圆,提高打捆速度。

The advanced wire conveying PF line gives guarantee to protect product from scratches and further makes truly round coiled wire for downstream process, with which the tying speed is improved.

### ■打捆机

- ★德国进口打捆机,效率高。盘圆捆轧结实,不易松卷,有效防止了线材的擦伤。

It is imported from Germany with high efficiency. Coiled loops are banded securely so that the possibility of loose coil causing bruises and scratches is effectively eliminated.





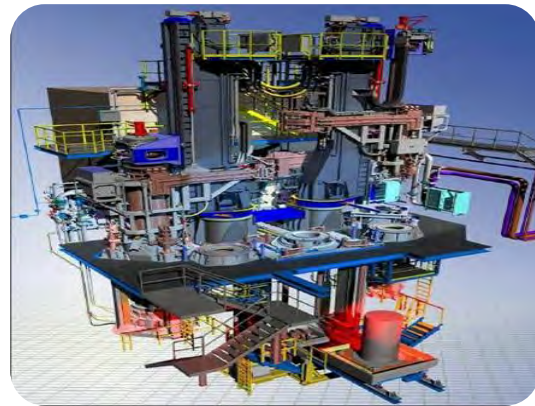
装备优势



■1800t 径锻机

★四向压应力高速锻造机，配备了在线固溶和调质设备，可生产22米超长料以及大口径厚壁锻管、台阶轴、锥形轴等异型件；锻制的扁钢最宽500mm,可保证完全直角交货。

High rate forging mill with four direction stress equipped with on-line solution and hardening & tempering devices can produce 22m super long material and thick big-bore forging pipe, step axis, taper axis and other non-standard parts. The maximum width of forging slab is 500mm, which can fully guarantee rightangle delivery condition.



■16吨气氛保护电渣炉

★奥地利进口设备，双电源三工位可交换电极，自动选渣，智能冶炼，可冶炼含铝、含钛等易氧化元素钢，保证产品纯度。

It is imported from Austria with twin power and three working positions exchangeable electrodes, furnished with automatic slag selection and intelligent melting, which can melt Al or Ti contained steel, etc and guarantee the product purity.



■2000t 三点式全自动压力矫直机

★世界上最大的不锈钢棒材全自动压力矫直机，尺寸精度可达ISO h8水平，弯曲度达 $\leq 1\text{mm/m}$ ,18米总弯曲度 $\leq 10\text{mm}$ 。

It is the largest automatic pressure leveler for stainless steel bar in the world. Dimensional accuracy can reach ISO h8. Bending rate  $\leq 1\text{mm/m}$ , total bending of 18 meter  $\leq 10\text{mm}$ .

研发能力



实验室许可证书  
Laboratory licence

国家级实验室



2019年在国家认定的1563家企业技术中心中，太钢技术中心排名第11位，行业排名第一。  
Tisco technology center ranks 11th among enterprise - based 1563 technology centers accredited by the state in 2019, No.1 in the industry.



博士后科研工作站  
Postdoctoral Programme



扫描电镜  
Scanning Electron Microscope



透射电镜  
Transition Electron Microscope



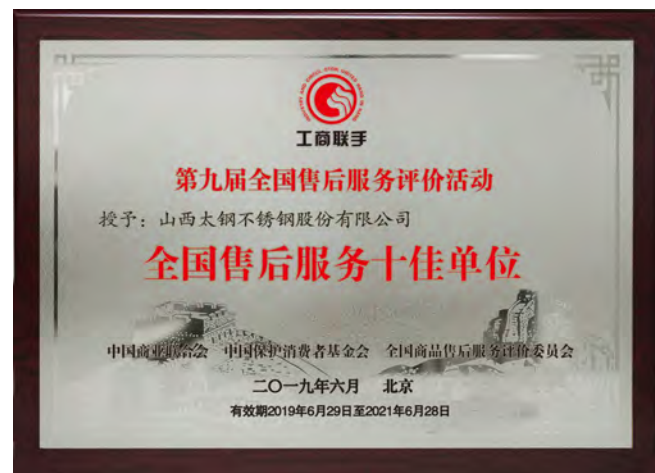
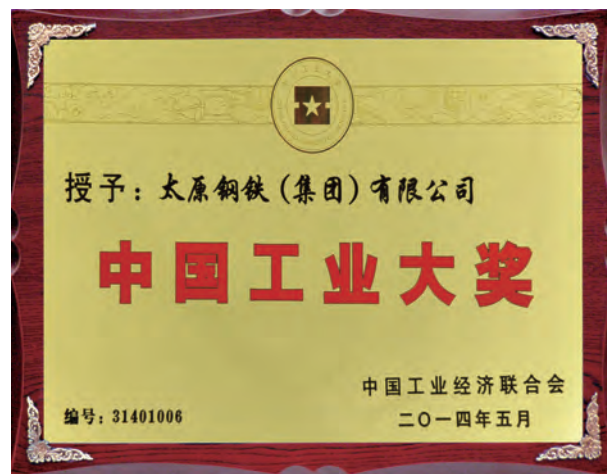
热模拟试验机  
Thermal Simulating Testet



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



认证、荣誉



产品优势

■钢质纯净

采用铁水为原料的K-OBM-S+VOD炉外精炼技术及充分发挥弧型连铸机功能,产品钢质纯净度高:  
 $[O] \leq 25\text{ppm}$ 、 $[H] \leq 2\text{ppm}$ ; $S \leq 0.005\%$ ; $\Sigma(Pb+As+Sn+Sb+Bi) \leq 0.01\%$ ;夹杂物含量低、尺寸小( $\leq 5\mu\text{m}$ )。  
 Highly pure steel thanks to adopting hot metal as raw material, K-OBM-S + VOD refining techniques and arc con-caster:  $[O] \leq 25\text{ppm}$ ,  $[H] \leq 2\text{ppm}$ ,  $S \leq 0.005\%$ ,  $\Sigma(Pb+As+Sn+Sb+Bi) \leq 0.01\%$ . Impurity is low and small. ( $\leq 5\mu\text{m}$ )

■间隙元素C、N含量低

C+N含量可达100ppm以下;  
 冷敏后开裂敏感性低。  
 C+N content can be below 100ppm.  
 Less crack sensitivity of cold heading.

■机械性能优良

延伸率 $\geq 60\%$ ;  
 Elongation $\geq 60\%$ .

■焊接材料

炉容量大,化学成分稳定,C、P、S等有害杂质含量低,焊接性好:

The furnace capacity is big, the chemical composition can be kept stable with low percentage of harmful impurities C, P, S, the weldability is excellent.

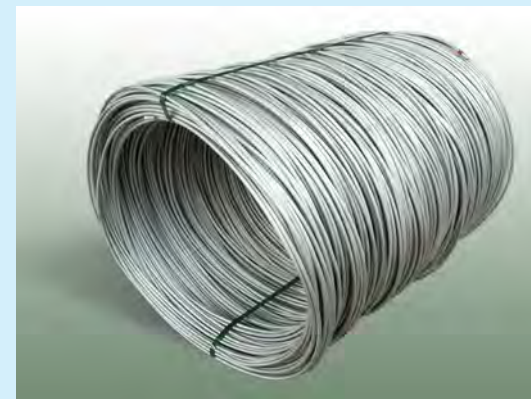
钢种系列化,307、308、309、316、347、430的高中低硅产品均可提供;  
 The grades are available in series, those with various Si percentage (high, medium, low) can be supplied, such as 307,308,309,316,347,430.

有稳定的不锈钢板材销售渠道,可配套销售高档焊接用盘条。

Taking advantage of stable sales channel of flat stainless steel, the high quality wire rods also can be provided in the meantime.

■规格范围宽

圆钢:  $\phi 5.5-\phi 20$ 、 $\phi 50-\phi 560\text{ mm}$   
 初轧坯:  $150 \times 150-550 \times 550 \times 1500-8500\text{mm}$   
 $60-200 \times 300-1000 \times 2000-8000\text{mm}$   
 Round steel:  $\phi 5.5-\phi 20$ 、 $\phi 50-\phi 560\text{mm}$   
 Billet:  $150 \times 150-550 \times 550 \times 1500-8500\text{mm}$   
 $60-200 \times 300-1000 \times 2000-8000\text{mm}$





## 主要产品

## ■ 不锈钢线材

类别 Category	分类 Classification	牌号 Grade	可执行标准 Standard	主要成分 Main chemical composition									机械性能 Mechanical property						主要特点 Main feature	主要用途 Application
													抗拉强度 Tensile strength		延伸率 Elongation		硬度 Hardness			
				C	Si	Mn	P	S	Cr	Ni	Cu	Mo	范围 Range	平均 Average	范围 Range	平均 Average	范围 Range	平均 Average		
奥氏体不锈钢 Austenitic stainless steel	焊接用钢 Welding steel	ER307Si	Q/TB3048-2020	0.07-0.09	0.65-1.00	6.70-8.00	≤0.040	≤0.015	18.50-19.50	8.00-9.00	≤0.20		560-690	643	32-65	60	151-180	165	磷含量低, S含量控制精度高, 有害元素少 Low P content, high accuracy control of S & P, low harmful elements	焊条、焊丝 Electrodes, Wire
		SUSY308	Q/TB3048-2020	≤0.050	≤0.25	1.00-2.20	≤0.030	≤0.020	19.50-22.00	9.50-11.00			570-750	650	30-61	52	162-187	175		
		SUSY308L	Q/TB3048-2020	≤0.030	≤0.25	1.00-2.20	≤0.030	≤0.020	19.50-22.00	9.50-11.00			610-650	634	41-59	52	161-180	171		
		ER308L	Q/TB3048-2020	≤0.030	0.40-0.65	1.50-2.50	≤0.025	≤0.020	19.50-21.00	9.50-11.00			615-790	647	44-59	52	151-188	171		
		ER308LSi	Q/TB3048-2020	≤0.030	0.65-1.00	1.50-2.50	≤0.030	≤0.025	19.50-21.00	9.50-11.00	≤0.35	≤0.25	610-760	657	40-69	58	156-180	169		
		E308L-G	Q/太新 003-2006	≤0.030	0.60-0.90	1.00-2.50	≤0.025	≤0.015	19.50-22.00	9.00-11.00	≤0.2		665-675	670	49-62	55	156-185	170		
		Y309L	Q/TB3048-2020	≤0.030	≤0.25	1.50-2.50	≤0.25	≤0.015	23.10-25.00	12.50-14.00	≤0.22	≤0.5	645-715	676	38-60	50	169-185	174		
		ER309L	Q/TB3048-2020	≤0.025	0.40-0.65	1.50-2.50	≤0.025	≤0.015	23.10-25.00	12.50-14.00	≤0.25		660-705	684	46-55	48	156-180	170		
		ER309LSi	Q/TB3048-2020	≤0.025	0.65-1.00	1.50-2.50	≤0.025	≤0.015	23.10-25.00	12.50-14.00			650-700	680	46-55	48	155-180	170		
		E309L-G	Q/太新 003-2006	≤0.030	0.50-0.85	1.00-2.50	≤0.025	≤0.015	22.50-24.50	12.00-14.00	≤0.2		670-690	680	55-65	60	170-200	190		
		Y316L	Q/TB3048-2020	≤0.030	≤0.25	1.50-2.50	≤0.025	≤0.015	18.50-20.00	11.50-14.00			555-700	624	40-64	53	148-179	163		
		ER316L	Q/TB3048-2020	≤0.030	0.40-0.65	1.50-2.50	≤0.025	≤0.015	18.50-20.00	12.00-14.00	2.1-3.0		555-700	624	40-64	53	148-179	163		
	ER316LSi	Q/TB3048-2020	≤0.030	0.65-1.00	1.50-2.50	≤0.025	≤0.015	18.10-20.00	12.00-14.00	≤0.40		590-640	620	50-58	53	138-184	166			
	ER347L:	Q/太新 083-2010	≤0.030	0.40-0.65	1.50-2.50	≤0.025	≤0.020	19.00-21.50	9.00-11.00	≤0.20	≤0.40	610-760	630	40-69	50	161-180	171			
	ER430L:	Q/太新 083-2010	≤0.03	0.40-0.65	0.40-0.60	≤0.025	≤0.020	16.00-17.00	≤0.60	≤0.020		450-695	520	30-46	37	140-180	160			
	紧固件用钢 Fasteners steel	SUS304HC	Q/TB3073-2007	≤0.06	≤1.00	1.20~1.80	≤0.035	≤0.030	18.00~19.00	8.00~11.00	2.0-3.0		505-700	550	40-75	52	138-187	160	加工塑性好, 无磁, 有害元素少 Superior processing plasticity, non magnetism, Low harmful elements	标准件, 丝网, 弹簧, 轴类 Standard parts, Wire Net, Spring, Axis
		302HQ	Q/太新 007-2005	≤0.08	≤1.00	≤2.00	≤0.035	≤0.030	17.00~19.00	8.50-10.50	3.0-4.0		490-525	505	56-62	60	133-137	135		
		ICr18Ni9(302)	Q/TB3074-2008	0.06~0.09	≤1.00	≤2.00	≤0.035	≤0.030	18.00-19.00	8.00-10.00			645-686	650	60-64	62	135-178	160		
06Cr19Ni10		Q/TB3073-2007	≤0.070	≤1.00	≤2.00	≤0.035	≤0.030	18.00~19.00	8.00~11.00			540-785	678	46-70	56	143-191	170			
0Cr18Ni9Y		Q/TB3049-2007	≤0.050	0.20-0.60	1.50-2.00	≤0.040	≤0.010	18.00~19.00	8.10-10.00	0.2-0.5		505-670	610	40-67	56	145-191	165			
SUS304M		Q/TB3073-2007	≤0.04	≤1.00	1.20-1.80	≤0.035	≤0.030	18.00~18.50	9.00~9.50			620-655	637	54-69	59	156-182	171			
022Cr19Ni10(304L)		Q/TB3049-2007	≤0.020	0.30-0.50	1.20-1.60	≤0.035	≤0.012	18.00-20.00	9.00-12.00		≤0.5	540-645	595	61-66	63	156-177	162			
304H		Q/TB3049-2007	0.06-0.09	≤1.00	≤2.00	≤0.035	≤0.030	18.00-20.00	8.00-10.50			555-730	665	52-65	60	151-195	175			
丝、网用钢 Wire Net steel	304S	Q/TB3049-2007	≤0.020	0.30-0.60	1.20-1.60	≤0.035	≤0.006	18.00-19.00	10.00-11.00	≤0.50	≤0.5	570-625	590	56-62	59	140-187	150			
	06Cr17Ni12Mo2	Q/TB3074-2008	≤0.08	≤1.00	≤2.00	≤0.035	≤0.030	16.00-18.00	10.00-14.00		2.00-3.0	555-630	604	47-67	58	149-188	163			
	022Cr17Ni12Mo2	Q/TB3074-2008	≤0.030	≤1.00	≤2.00	≤0.035	≤0.030	16.00-18.00	10.00-14.00		2.00-2.50	505-625	577	50-68	58	139-187	158			
马氏体不锈钢 Martensitic stainless steel	紧固件 厨具 丝网 用钢 Fasteners Kitchenware Wire Net steel	ICr13(410)	GB/T4356-2002	≤0.15	≤1.00	≤1.00	≤0.035	≤0.030	11.50-13.50	≤0.60		480-670	578	23-43	34	138-198	168	可通过热处理调整硬度 Hardness can be adjusted by heat treatment	刀具、轴类装饰材料 Tool bit, Axis Decorative materials	
		2Cr13(420J1)	GB/T4356-2002	0.16-0.25	≤1.00	≤1.00	≤0.035	≤0.030	12.00-14.00	≤0.60		520-675	578	24-37	31	140-187	169			
		3Cr13(420J2)	GB/T4356-2002	0.26-0.35	≤1.00	≤1.00	≤0.035	≤0.030	12.00-14.00	≤0.60		585-760	646	20-44	30	156-215	179			
铁素体不锈钢 Ferritic stainless steel	紧固件 厨具 丝网 用钢 Fasteners Kitchenware Wire Net steel	0Cr13(410S)	GB/T4356-2002	≤0.08	≤1.00	≤1.00	≤0.035	≤0.030	11.50-13.50	≤0.60		435-470	450	31-44	39	134-163	150	C含量低, 抗拉强度高,延伸率高 Low C content, Low tensile strength, high elongation	丝网,清洁球 Wire Net, Cleaning Ball	
		ICr17(430)	GB/T4356-2002	≤0.12	≤0.75	≤1.00	≤0.035	≤0.030	16.00-18.00	≤0.60		450-695	521	29-46	37	140-180	160			
		TCBS	Q/TB3049-2007	≤0.030	≤1.00	≤1.00	≤0.045	≤0.010	12.00-13.00	≤0.60		435-725	581	22-60	35	131-191	170			
	TCBS2	Q/TX3340-2007	≤0.030	≤0.50	≤0.50	≤0.030	≤0.010	16.50-18.00	≤0.20		450-695	521	29-46	37	140-180	160				

注:也可按GB、JIS、DIN、EN、AISI标准交货。

Note:delivery according standard GB, JIS, DIN, EN, AISI.



## 主要产品

### ■ 不锈钢初轧坯

钢种 Type	规格 Specification	牌号 Grade	执行标准 Standard	主要特点 Main feature	主要用途 Application
不锈钢初轧坯 Stainless steel billet	150×150-550×550× 1500-8500mm rolled 60-200×300-1000× 2000-8000mm rolled	12Cr13、20Cr13、 30Cr13、06Cr18Ni11Ti 022Cr19Ni10 06Cr17Ni12Mo2 022Cr17Ni12Mo2 06Cr19Ni10, etc.	Q/太新 073-2010 Q/TB3047-2010 Q/太锈 014-2001 Q/TX3454-2010 Q/TB3067-2007	钢质纯净 P、S 含量低 Clean steel, low P & S content	用于再轧、再锻各类不 锈钢板材、型材、轴类、 线材、法兰及其它工程 用钢 Used for re-rolled or re-forged to various kinds of stainless steel sheets, section, axis, wire, flange and other engineering steel

### ■ 轧制管坯及棒材

钢种 Type	规格 Specification	牌号 Grade	执行标准 Standard	主要特点 Main feature	主要用途 Application
轧制管坯 Rolled tube billet	φ60-130× 5000- 8000mm	022Cr19Ni10(TP304) 12Cr18Ni9(TP304H) 06Cr18Ni11Ti(TP321) 06Cr17Ni12Mo2(TP316) 022Cr17Ni12Mo2(TP316L) TP347H TP347HFG TP310HCbN SUPER304H 双相钢(duplex) 13Cr、超级 13Cr	Q/TX3071-2007 Q/太新 019-2006 Q/TX3127-2005 Q/太新 075-2009	钢质纯净 P、S 含量低 大压缩比 Clean steel, low P & S content high compression ratio	石油、化工、化肥用裂化管、炉管、 炉管换热器、核电、舰船用管坯； API 标准系列套管 Petroleum chemical industry, fertilizer cracking pipe, furnace pipe heat exchanger, nuclear vessel pipe billet; API standard series socketed tube
轧制棒材 Rolled bar	φ16-120× 5000- 8000mm	12Cr13、20Cr13、30Cr13、 40Cr13、06Cr18Ni11Ti 022Cr19Ni10 06Cr17Ni12Mo2 022Cr17Ni12Mo2 40Cr13 等	GB/T1220-2007 GB/T1221-2007 Q/TX3022-2003	钢质纯净 组织均匀 性能稳定 Clean steel Uniformity structure steady performance	阀门、喷嘴、高韧性零件以及耐酸 容器及设备内衬、输送管道、抗磁 仪表 Valve, nozzle, high toughness parts, acidproof container and equipment lining, conveyer pipe, diamagnetic meter

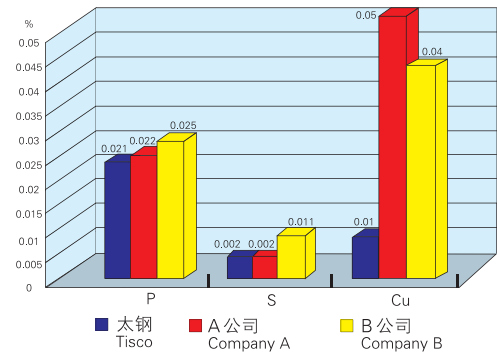
## 主要产品

### ■ 锻制管坯及棒材

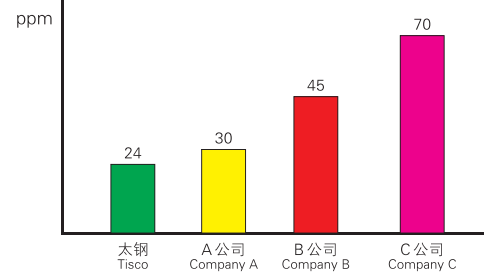
钢种 Type	规格 Specification	牌号 Grade	执行标准 Standard	主要特点 Main feature	主要用途 Application
锻制管坯 Forged tube billet	φ80-560×2000- 12000mm	022Cr19Ni10(TP304) 12Cr18Ni9 (TP304H) 06Cr18Ni11Ti(TP321) 06Cr17Ni12Mo2(TP316) 022Cr17Ni12Mo2(TP316L) TP347H TP347HFG TP310HCbN SUPER304H 双相钢 13Cr、超级 13Cr	Q/TX3071-2007 Q/太新 019-2006 Q/TX3127-2005 Q/太新 075-2009	钢质纯净 P、S 含量低 大压缩比 Clean steel, Low p&s content high compression ratio	石油、化工、化肥用裂化 管、炉管、炉管换热器、 核电、舰船用管坯； API 标准系列套管 Petroleum, chemical industry, fertilizer cracking pipe; furnace pipe, furnace pipe, heat exchanger, nuclear, vessel pipe billet; API standard series socketed tube
锻制棒材 Forged bar	φ80-560×2000- 12000mm	12Cr13、20Cr13、40Cr13 30Cr13、06Cr18Ni11Ti 022Cr19Ni10 06Cr17Ni12Mo2 022Cr17Ni12Mo2 40Cr13 等	GB/T1220-2007 GB/T1221-2007 Q/TX3022-2003	钢质纯净 组织均匀 性能稳定 Clean steel Uniformity structure steady performance	阀门、喷嘴、高韧性 零件以及耐酸容器及 设备内衬、输送管道、 抗磁仪表 Valve, nozzle, high toughness parts, acid-proof container and equipment lining, conveyer pipe, diamagnetic meter
汽轮机 叶片用钢 Turbine blade steel	φ80-560×2000- 12000mm 圆、方锻材 Round, square Forging	R20Cr13、R12Cr12Mo R14Cr11MoV 等	GB/T8732-2007 GB/T1220-2007 或协议	有较高的强度、 塑性、韧性 和热强性能。 Higher strength, plasticity, toughness and thermal property	用于制做临界温度 汽轮机叶片 Be made of critical temperature steam turbine blade
发电机 护环用钢 Generators guard ring steel	90-450mm 圆锻材 Round forging	Mn18Cr18N 等	Q/TX3022-2003	钢质纯净 组织均匀 性能稳定 Clean steel Uniformity structure steady performance	发电机 护环用不锈钢 Stainless steel of generator guard ring



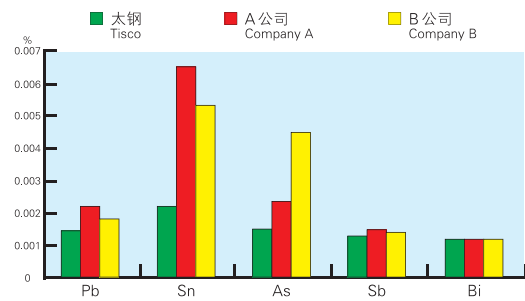
## 实物质量对比



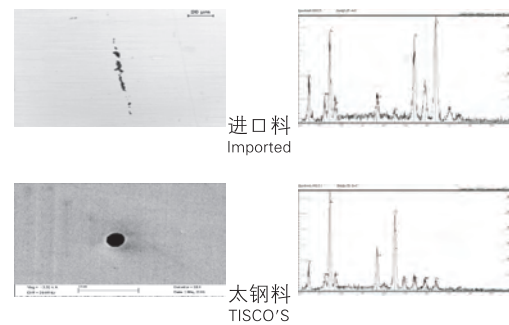
P, S, Cu element comparison (304)  
The comparison of P, S, Cu element (304)



[O] content comparison (304)  
The comparison of [O] element (304)



Five harmful elements comparison (304)  
The comparison of five harmful elements (304)

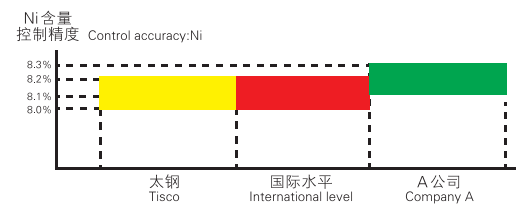
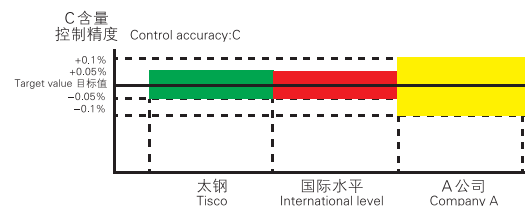


Impurity element amount, form and size comparison (304)  
The comparison of impurity element amount, form and size (304)

## 成分稳定

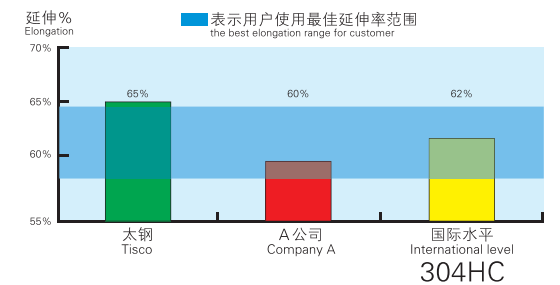
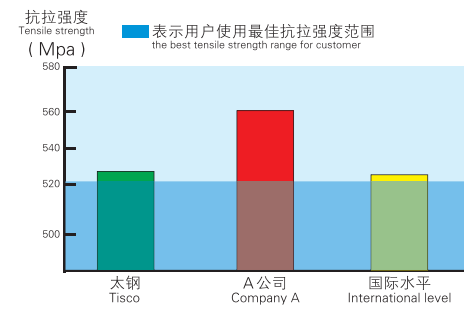
利用先进的冶炼、检测装备和技术,所生产的产品化学成分准确质量稳定。

The product with constant chemical-composition and stable good quality thanks to the advanced smelting, testing equipment and technologies.



## 实物质量对比

### 机械性能稳定



### 冷镦性好



TISCO product: 1/5 cold heading reached



Company A: 1/3 cold heading reached

### 拉拔性好

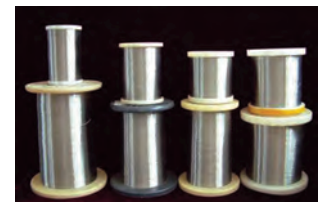


TISCO wire can be drawn as fine as up to 0.03mm while 0.027mm of international level



### 可加工多种规格钢丝

One time drawing of TISCO product 5.5-1.1mm, equals to the international level.

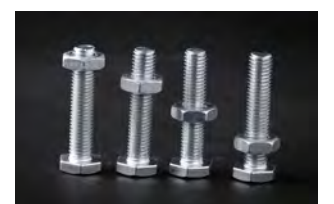


### 可加工多种标准件



### 焊接性好

Welding deposited metal impacting fracture (good impacting toughness)

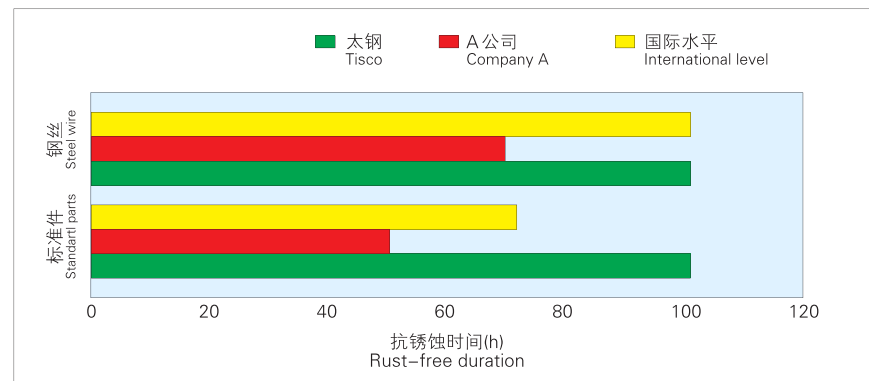




## 实物质量对比

### 耐蚀性能好

牌号 Grade	腐蚀速率 (Corrosion rate)g/m <sup>2</sup> ·h 3.5%NaCl50°C × 24小时	腐蚀速率 (Corrosion rate)g/m <sup>2</sup> ·h 6%FeCl+0.05mol/L HCL 35°C × 24小时
0Cr18Ni9	0.065	19.12
SUS304HC	0.0649	22.71



SUS304HC 盐雾实验  
SUS304HC Salt mist test

## 应用领域

### 不锈钢初轧坯



标准件 Standard parts



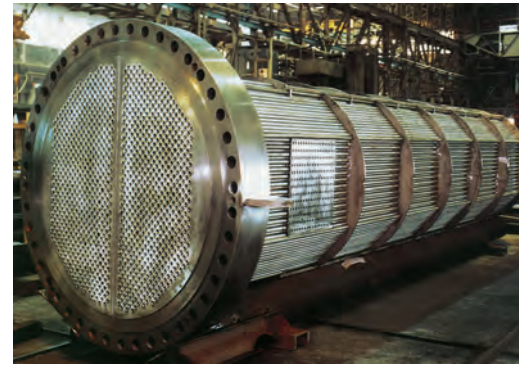
焊带 Welding Strip



餐具 Cutlery



焊条 Welding Rod



热交换器  
Heat exchanger



炼油蒸馏装置  
Refinery and distilling equipment



油田管道  
Oil Field pipeline



化工厂  
Chemical Plant



焦炉煤气  
Coke oven gas



三峡水电站  
Three Gorges Hydropower Station



食品酿造  
Food Brewing



太钢加工配送营销网络布局图



## 服务承诺

### Service Promise

- 为客户提供个性化成分、性能、包装、卷重、质保书设计
- 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, 24小时内答复

- To provide consumers with the personalized designs on composition, propertiesproperty, packing, coil weight and quality certificate
- Provide technical support to customers in material selection and processing
- Accurate and prompt delivery
- Response to customer's claim within 24 hours

## 主要业务部门联系方式

### Contacting Manners of the Main Business Sections

股份公司主要业务部门 Major business department	业务范围 Business scope	联系电话 Telephone	电子邮箱 E-mail
营销中心 Marketing center	国内贸易 Domestic trade	0351-2138401 0351-2138402 0351-2138390 传真: 2138831	shiyb@tisco.com.cn chengyj@tisco.com.cn wangyj@tisco.com.cn
	海外贸易 Overseas trade	2138255/2138409/2138446/2138523 传真: 2134418	tgyhwb@tisco.com.cn yuguang@tisco.com.cn zhangteng@tisco.com.cn
	异议及投诉处理 Complaint handling	400-653-1998 800-806-1998	xscylla@tisco.com.cn
技术中心 Technology center	技术咨询服 Technical consultation service	0351-3013031	tgjszxbxg@tisco.com.cn

## 国际分公司联系方式

太钢国贸(美国)有限公司 Tisco Trading USA, INC	美国 USA	电话 (Tel) 724 746 8913-201	传真 (Fax) 724-7468915
太钢国贸(香港)有限公司 Tisco Trading (H.K.) Ltd	香港 Hongkong	电话 (Tel) +0852-28271686	传真 (Fax) +0852-28271300
太钢欧洲有限公司 Tisco Europe GmbH	德国 Germany	电话 (Tel) +49(0)2154-816900	传真 (Fax) +049-2154-816911

## 国内分公司联系方式

公司名称 Branch Name	地址 Address	通讯方式 Telephone & Fax
山西区销售公司 TISCO sales company in Shanxi	太原现货销售有限公司 Spot sales company Ltd.of TISCO	太原 电话(Tel) 86-351-0351-2138215/2138213/2138218 传真(Fax) 86-351-2138217
	山西定襄太钢销售有限公司 Shanxi Dingxiang TISCO sales Co.,Ltd.	定襄 电话(Tel) 86-350-6034511/6034522/6034533 传真(Fax) 86-350-6086527
太钢华北区销售公司 TISCO sales company in North China	天津太钢销售有限公司 Tianjin TISCO sales Co.,Ltd.	天津 电话(Tel) 86-22-24308105/24212231/24214797 传真(Fax) 86-22-24308103
	北京太钢销售有限公司 Beijing TISCO sales Co.,Ltd.	北京 电话(Tel) 86-10-64441368/64441370 传真(Fax) 86-10-64441369
太钢东北区销售公司 TISCO sales company in Northeast of China	辽宁太钢销售有限公司 Liaoning TISCO sales Co.,Ltd.	辽宁 电话(Tel) 86-24-024-24232050/24232051/24232016 传真(Fax) 86-24-24231216
	沈阳沈水太钢不锈钢销售有限公司 Shenyang shenshui TISCO stainless steel Sales Co.,Ltd.	沈阳 电话(Tel) 024-29874080
太钢华东区销售公司 TISCO sales company in East China	哈尔滨太钢销售有限公司 Haerbin TISCO sales Co.,Ltd.	哈尔滨 电话(Tel) 86-451-55185321 传真(Fax) 0451-55185321
	无锡太钢销售有限公司 Wuxi TISCO sales Co.,Ltd.	无锡 电话(Tel) 86-510-82407713/82400327 /82402153 传真(Fax) 86-510-82441187
太钢华东区销售公司 TISCO sales company in East China	上海太钢销售有限公司 Shanghai TISCO sales Co.,Ltd.	上海 电话(Tel) 86-21-61808397 传真(Fax) 86-21-61808397
	杭州太钢销售有限公司 Hangzhou TISCO sales Co.,Ltd.	杭州 电话(Tel) 86-571-86636829/85067265 传真(Fax) 86-571-85061958
太钢山东区销售公司 TISCO sales company in Shandong	青岛太钢销售有限公司 Qingdao TISCO sales Co.,Ltd.	青岛 电话(Tel) 86-532-67730203/67730205/67730206/67730207/67730208/ 67730420 传真(Fax) 86-532-67730205
	济南太钢销售有限公司 Jinan TISCO sales Co.,Ltd.	济南 电话(Tel) 86-531-58677311/58677312/58677315/58677316 传真(Fax) 86-531-58677313
太钢华中区销售公司 TISCO sales company in Central China	武汉太钢销售有限公司 Wuhan TISCO sales Co.,Ltd.	武汉 电话(Tel) 86-27-85615300/85612249 传真(Fax) 86-27-85615311
	长沙太钢销售有限公司 Changsha TISCO sales Co.,Ltd.	长沙 电话(Tel) 86-731-85592703/85592753 传真(Fax) 86-731-85598305
太钢华南区销售公司 TISCO sales company in South China	佛山市太钢不锈钢销售有限公司 Foshan TISCO Stainless Steel Sales Co.,Ltd.	佛山 电话(Tel) 86-757-83315711/83315713 /83837104/83311625 传真(Fax) 86-757-83315718
	揭阳太钢销售有限公司 Jieyang TISCO sales Co.,Ltd.	揭阳 电话(Tel) 86-663-8766018/8766028/8766038/8766058 传真(Fax) 86-663-8766048
太钢西南区销售公司 TISCO sales company in Southwest of China	重庆太钢销售有限公司 Chongqing TISCO sales Co.,Ltd.	重庆 电话(Tel) 86-23-68154181 传真(Fax) 86-23-68400789
	成都太钢销售有限公司 Chengdu TISCO sales Co.,Ltd.	成都 电话(Tel) 86-28-028-87604342/87619873 传真(Fax) 86-28-87612940
太钢西北区销售公司 TISCO sales company in Northwest of China	西安太钢销售有限公司 Xi'an TISCO sales Co.,Ltd.	西安 电话(Tel) 029-86454308/86231507/86231506 传真(Fax) 86-29-86459431
	郑州太钢销售有限公司 Zhengzhou TISCO sales Co.,Ltd.	郑州 电话(Tel) 86-0371-56976971/56976972/56976974 传真(Fax) 86-371-56976973



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传真 (Fax): 0351-2133831

网址 (URL): <http://www.tisco.com.cn>

服务热线 (Hotline): 400-653-1998

800-806-1998

股票代码 (Stock code): 000825



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TISCO public micro signal  
TISCO-SX



太钢产品宣传资料