TISCO

船舶行业用钢

SHIPBUILDING STEEL

太钢产品分行业系列册 Products Serial Catalogs Of Tisco For Different Industries

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太原钢铁（集团）有限公司
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余年发展，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。2009年生产不锈钢248万吨，产量世界第一！

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”系列火箭及核电站等高端领域，进入三峡水利、西气东输、奥运场馆及世博场馆等国家重点工程。2009年在国家认定的575所企业技术中心中，太钢技术中心排名第二，位钢铁行业首位。太钢拥有以不锈钢为核心的745项具有自主知识产权的核心技术，其中100多项达到国际先进水平。

太钢的发展战略是，加快建设全球最具竞争力的不锈钢企业，实现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 one of the steel giants in China and, the largest stainless producer in the world in term of capacity equipped with the most advanced facilities covering pretty wide product range. After over 70 years development TISCO has the capacity of 10 million tons of steel, which includes 3 million tons of stainless. The year of 2009 saw TISCO become No.1 stainless producer in the world with production of 2.48 million tons of stainless.

In TISCO came out the first heat of stainless steel and first heat of silicon steel as well as the first sheet of silicon in the history of China steel industry. TISCO is well equipped for mining and iron ore refining, iron and steel making, rolling and forging, metallurgical equipment and spare parts manufacturing. TISCO's products cover stainless steel of cold and hot rolling ,cold rolled silicon, hot rolled coil, axle steel, die steel and steel for military purpose etc. TISCO's products are widely used in petrochemical industry, transportation, construction decoration, home appliance, medical and food industry. TISCO's products can be also found in the national key projects such as Shenzhou spaceship, Chang'e-1 Moon Detector,Dongfeng rocket series and nuclear power,Three Gorges ,West-East natural gas transmission, and Olympic game facility as well as Shanghai world expos. In 2009TISCO technology centre ranked No.2 among the 575 state acknowleged enterprise technology institutions, and No.1 among the steel industry. TISCO owns 745 core patents in the field of stainless and over 100 patents are taken as the world class.

TISCO is aiming to become the most competitive stainless producer in the world, and achieve the first class stainless product in terms of product range, quality, cost, R&D, energy saving, environment protection, efficiency and service. For this goal TISCO is trying the first world class level and build itself into the world competitive large group company.

◆ 船舶行业用钢概况

太钢于1969年开始生产舰用钢板，1972年开始生产民用船板，至今有40余年的历史，目前已具备55万吨/年的供货能力。

太钢生产船板有三个车间，船板产品品种规格齐全，不锈钢、碳钢均可供货，质量稳定，已获得6个船级社认可，产品广泛用于建造各类船舶、海洋工程、船坞以及码头设施等。已进入的国内知名企业中国船舶重工集团公司下的川东造船厂、天津新港船舶重工有限公司、山海关船舶重工有限公司，长航集团下的金陵船厂，烟台来福士海洋工程有限公司、江苏东风重工有限公司，在国内享有较高声誉。

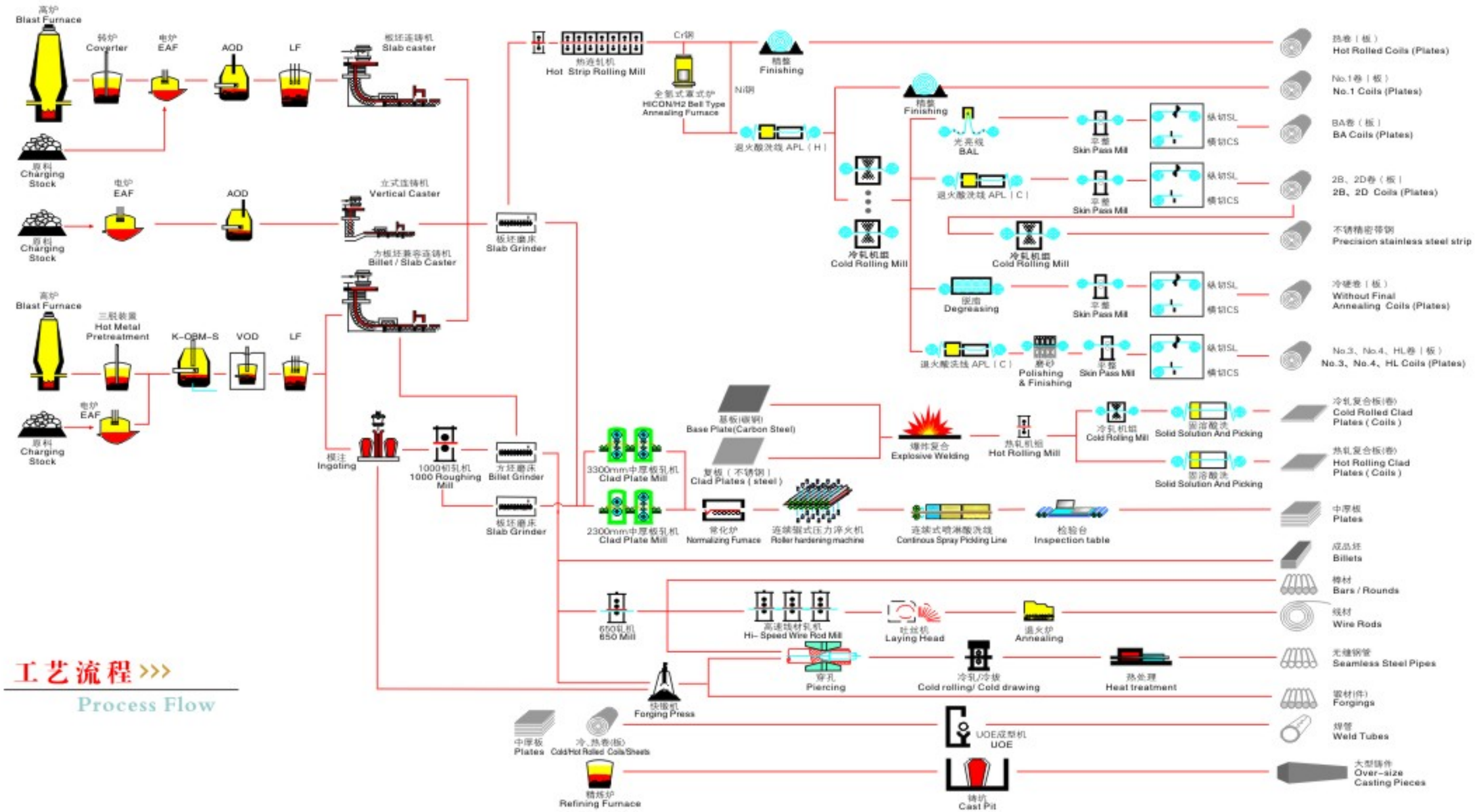
太钢船板将发挥不锈钢生产优势，定位于化学品船、特种船舶与海洋工程等特殊船舶用领域，为特种船舶提供精美的钢板。

◆ Brief on shipbuilding industry steel

TISCO has a shipbuilding plate production history of 40 years, it started to produce warship steel plate in 1969 and civil ship platein 1972. Today, TISCO has the shipbuilding plate supply capacity of 550 thousand ton per year.

There are 3 workshops to produce shipbuilding plate in TISCO. Its products, both in stainless steel and carbon steel, featured with steady quality and complete variety, have gained the approval from six Bureaus of Shipping and been widely applied in building different ships, ocean projects, boatyard, dock facilities, and etc. TISCO enjoys a good reputation among its users, which include well known Chuan Dong Shipbuilder of CSIC (China Shipbuilding Industry Corporation), Tianjin Xingang Shipbuilding Heavy Industry Co., Ltd., Shanhaiguan Shipbuilding Industry Co., Ltd., JinLing Ship Yard of CSC (Changhang Shipping of China), Yantai Laifushi Ocean Project Co., Ltd., and Jiangsu Dongfeng Industry Co., Ltd..

TISCO shipbuilding plate will take its advantage in producing stainless steel, pinch in chemical ship, special type ship and ocean project, and supply delicate steel plate for various ships.



工艺流程>>>

Process Flow

研发能力 >>>

Research and Development

国家级实验室

National level laboratory

2009年在国家认定的575家企业技术中心中，太钢技术中心排名第2位。

Tisco technology center ranks 2th among enterprise-based 575 technology centers accredited by the state in 2009.

企业荣誉 >>>

Honors & Awards

- 《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.

质量保证体系 >>>

Quality Assurance System

不锈钢产品船级社认证

Certifications of Stainless Steel
Products from Bureaus of Shipping

碳钢产品船级社认证

Certifications of Carbon Steel
Products from Bureaus of Shipping

常规产品 >>>
Conventional Products

不锈钢产品 Stainless Steel Products

品种 Variety

钢种 Steel grade	牌号 Grade	规格 Specification	船规及标准 Ship specification and standard
奥氏体不锈钢板 Austenite Stainless Steel Plate	UNS S30400、304、1.4301	6=40×1400=3000×4000=12000	按CCS、BV、GL、LR、DNV、ABS船规生产 Complied with the shipping standards as CCS, BV, GL, LR, DNV and ABS
	UNS S30403、304L、1.4307、022Cr19Ni10、00Cr19Ni10		
	UNS S31600、316、1.4401		
	UNS S31603、316L、1.4404、022Cr17Ni12Mo2、00Cr17Ni14Mo2		
双相不锈钢板 Duplex Stainless Steel Plate	UNS S31803、1.4462、022Cr22Ni5Mo3N、00Cr22Ni5Mo3N		
	UNS S32304、1.4362		
	UNS S32205、S32101		

化学成分（典型值） Chemical composition (Typical value)

牌号 Grade	化学成分% Chemical composition								
	C	Si	Mn	P	S	Cr	Ni	Mo	N
304	0.08	0.75	2	0.045	0.03	18.0-20.0	8.0-10.5	-	0.1
304 L	0.03	1	2	0.045	0.03	17.0-20.0	8.0-13.0	-	0.1
316 L	0.03	1	2	0.045	0.03	16.0-18.5	10.0-15.0	2.0-3.0	0.1
S31803	0.03	1	2	0.03	0.02	21.0-23.0	4.5-6.5	2.5-3.5	0.08-0.20
S32205	0.03	1	2	0.03	0.02	22.0-23.0	4.5-6.5	3.0-3.5	0.14-0.20
S32304	0.03	1	2.5	0.04	0.03	21.5-24.5	3.0-5.5	0.5-0.6	0.05-0.20
S32101	0.04	1	4.0-6.0	0.04	0.03	21.0-22.0	1.35-1.70	0.10-0.80	0.20-0.25

除表明的范围外，所有数据均为最大值
All the data is maximum limit unless specified.

机械性能 Mechanical properties

钢种 Steel grade	0.2% 验证应力（N/mm2）最小 Tested stress Minimum	1% 验证应力（N/mm2）最小 Tested stress Minimum	抗拉强度（N/mm2）最小 Tensile strength Minimum	伸长率 % 最小 Elongation rate minimum	夏比V型缺口冲击试验 Charpy V-notch impact test		
					试验温度 Test temperature	纵向 Longitudinal	横向 Transverse
304	205	245	515	40	-196	41	27
304 L	170	210	485	40	-196	41	27
316 L	170	210	485	40	-196	41	27
S31803	450	-	620	25	-20	41	27
S32205	450	-	620	25	-20	41	27
S32304	550	-	795	15	-20	41	27
S32101	450	-	620	25	-	-	-

不锈钢焊接指南
Welding instruction for stainless steel

奥氏体焊接 Welding of austenite

钢种 Steel grade	焊材型号 Type of welding material			使用说明 User manual
	中国GB焊丝 Chinese GB welding wire	中国GB焊条 Chinese GB welding rod	美国材料AWS American material AWS	
304	H00Cr21Ni10	E308L	308L	焊材的C、S、P、Si、Nb应尽可能低。 The contents of C, S, P, Si, and Nb in welding material should be as low as possible.
304 L	H00Cr19Ni12Mo2	H00Cr19Ni12Mo2	316	焊缝金属为316L的焊后状态，有时耐腐蚀性欠佳，可通过1050-1100℃固溶处理来改善。 In case that welding seam metal is post-welded 316L, the anti-corrosion performance, which would be bad, can be improved through solution treatment under 1050-1100℃.

双相钢焊接 Welding of duplex

钢种 Steel grade	焊材型号 Type of welding material	热输入KJ/mm Heat input	层间温度 Weld Inter-pass Temperature	使用说明 User manual
S31803	Cr22-Ni9-Mo3型超低碳 Cr22-Ni9-Mo3 Type Super Low Carbon	0.5-2.5	<250℃	双相钢的焊接比较复杂，无论是对于焊缝还是焊接热影响区，都希望焊后在高温区的冷却速度不要过快，以便于铁素体向奥氏体转变，而同时又希望焊后在低温阶段冷却速度尽可能快，防止有害的金属间化合物析出。 The welding of duplex is relatively complicated. Both for welding seam and welding heat-affected zone, the cooling of high-temperature zones after welding should not be too fast in consideration of the transformation of ferrite to austenite, at the same time, the cooling of low-temperature stage after welding is expected to be as quick as possible to avoid the adverse precipitation of inter-metallic compound.

碳钢产品 Carbon Steel

◆ 品种 Variety

钢种 Steel grade	牌 号 Grade	规格 Specification	船规及标准 Ship specification and standard
一般强度船板 Shipping plate with general strength	A、B、D	2~40×1000~3000×6000~12000	按CCS、BV、GL、LR、KR、ABS船规生产 Complied with the shipping standards as CCS, BV, GL, LR, DNV and ABS
高强度船板 Shipping Plate with High Strength	AH32、AH36 DH32、DH36		

◆ 化学成分（典型值） Chemical composition（Typical value）

一般强度船板 Shipping plate with general strength　　单位：%

牌号 Grade	C	Si	Mn	P	S	Als
A	≤0.21	≤0.50	≥2.5C	≤0.035	≤0.035	-
B		≤0.35	0.8~1.20			
D			0.6~1.20			≥0.015

高强度船板 Shipping plate with high strength　　单位：%

牌号 Grade	C	Si	Mn	P	S	Als	Nb	V	Ti	Cr	Ni
AH32、AH36 DH32、DH36	≤0.18	≤0.50	0.90~1.60	≤0.035	≤0.035	≥0.015	0.02~0.05	0.05~0.10	≤0.02	≤0.02	≤0.40

◆ 机械性能 Mechanical properties

级别 Level	牌号 Grade	屈服强度 Yield strength MPa, ≥	抗拉强度 Tensile strength MPa	延伸率 Elongation %≥	冲击功Akv,J, ≥ Impact energy			冷弯 Cold bending
					试验温度 Test Temperature ℃	≤50 纵向 Vertical	≤50 横向 Horizontal	b=5a 120°
一般强度 General strength	A	235	400~520	22	20			-
	B				0	27	20	
	D				-20			
高强度 High strength	AH32	315	440~570	22	0	31	22	d=3a
	DH32				-20			
	AH36	355	490~630	21	0	34	24	
	DH36				-20			

碳钢船板焊接指南
Carbon steel welding instruction

● A、B、D

◆ 焊接材料 Welding material

焊接方法 Welding method	焊　接　材　料 Welding material
手工电弧焊 Hand Arc Welding	对于重要的结构可采用E4315、E4316、E5055、E5016；一般结构采用E4303。 For the important structures, E4315, E4316, E5055, and E5016 can be applied; for general structures, E4303 is applied.
埋弧焊 Hidden Arc Welding	H08A+HJ431（或HJ430）
CO_2气体保护焊 CO_2 Gas-shield Arc Welding	对于重要的结构可采用H08Mn2SiA；一般结构采用H08MnSi、H08MnSiA、H10MnSi。 H08Mn2SiA is applied for important structure; and H08MnSi, H08MnSiA and H10MnSi can be applied for general structures.

◆ 焊接工艺 Welding process

（1）手工电弧焊

主要根据焊件厚度、坡口形式、焊缝空间位置选择焊接工艺参数。

（2）CO_2气体保护焊

（1）Hand Arc Welding

The welding parameters are depended on the thickness and chamfer type of welding part and position of welding seam.

（2）CO_2 Gas-shied Welding

焊丝直径（mm） Welding wire diameter	板厚（mm） Plate thickness	焊缝位置 Welding seam position
1.0~1.4	6~8　6~12	全位置水平 Horizontal through the whole welding seam
1.6	6~12	水平、立、横、仰 Horizontal, vertical, transverse, upward
≥1.6	>6	水平 Horizontal

不同焊丝直径的合适焊接电流区间

Different welding wire diameters match to different welding current range

焊丝直径（mm） Welding wire diameter	焊接电流（A） Welding current	
	细颗粒过渡（30~45V） Fine grain transition	短路过渡（16~22V） Short circuit transition
1.2	200~300	100~175
1.6	350~500	120~180
2.4	500~700	150~200

● AH32、AH36、DH32、DH36

◆ 焊接材料 Welding material

焊接方法 Welding method	焊 接 材 料 Welding material
手工电弧焊 Hand Arc Welding	E5003、E5015、E5016
埋弧焊 Hidden Arc Welding	SJ501+H08A (或H08MnA)；不开坡口对接；H08MnA+HJ431(或HJ430)； 开坡口对接；H08MnA(或H10Mn2)+HJ431()或HJ430、SJ301) SJ501+H08A (or H08MnA); butt welding without chamfer; H08MnA+HJ431 (or HJ430); butt welding with chamfer: H08MnA (or H10Mn2) + HJ431 (or HJ430, SJ301)
CO_2气体保护焊 CO_2 Gas-shield Arc Welding	H08Mn2SiA、H08Mn2Si

1、预热温度

焊前一般不预热，但在低温下焊接或焊接大刚性、大厚度结构件需要采用预热措施。

2、焊接工艺

由于此钢含有少量的V、T、N等细化晶粒的元素，同时为了降低淬硬倾向，防止冷裂纹的产生，选用的焊接线能量可能偏大些。

1. Pre-heating Temperature

Normally preheating is not necessary for welding. But in case of low temperature or high rigidity parts or big thickness parts, preheating should be done.

2. Welding Process

As this steel grade contains a small quantity of V, T, and N, which are grain refiner elements, the input energy welding should be relatively higher. That is also good for reducing the tendency of harden quench and avoiding the generation of cold crack.

● 产品性能特点 Features of the product

太钢碳钢船板成分波动小，P、S含量低，钢质纯净，性能稳定，产品质量受到广大用户的好评。太钢配套建有德国进口的横切机组，可以生产6-40×1000-3000×6000-12000中板和2.0-25×1500-2130×6000-12000mm的切边板，切边板矫直后的平直度和残余应力可达到最好水平，可保证钢板纵向分条后没有变形产生，产品质量在国内同类产品中属于佼佼者。

TISCO's carbon shipping plate, with relatively stable composition, low content of P and S, pure steel quality and reliable performance, has widely gained good comments among our customers. Equipped with crosscutting machine imported from Germany, TISCO owns the capacity of producing medium plate of 2-40×1000-3000×6000-12000 and sheared plate of 2.0-24×1500-2130×6000-12000mm. By straightening, the flatness and remain stress of sheared plate will reach top class level; no deformation will happened after the plate being longitudinally divided. The quality of product ranks top among domestic alike products.

配套产品目录 Other products catalog

● 不锈钢类 Stainless steel

牌号 Grade	规格（mm） Specifications			标准 Standard	交货状态 Delivery	主要用途 Application
	厚度 Thickness	宽度 Width	长度 Length			
0Cr18Ni9 00Cr19Ni10	6~40	1500~2000	4000~8000	GB/T4237-92	固溶酸洗 Solution and pickling	用于一般化工设备等。 Used for general chemical industry equipment.
1Cr18Ni9Ti 0Cr18Ni10Ti	6~40	1500~2000	4000~8000	GB/T4237-92	固溶酸洗 Solution and pickling	耐晶间腐蚀性较好部件。 Used for parts with relatively good inter-crystalline corrosion resistance properties.
0Cr17Ni12Mo2 00Cr17Ni14Mo2	6~40	1500~2000	4000~8000	GB/T4237-92	固溶酸洗 Solution and pickling	用于抵抗硫酸、磷酸、甲酸、乙酸的设备。 Used for equipments that required for vitriol-resistance, phosphoric acid resistance, formic acid resistance or acetic acid resistance..
0Cr18Ni12Mo2Ti	6~40	1500~2000	4000~8000	GB/T4237-92	固溶酸洗 Solution and pickling	用于一般化工设备等。 Used for general chemical industry equipment.
1Cr18Ni12Mo2Ti	6~40	1500~2000	4000~8000	GB/T4237-92	固溶酸洗 Solution and pickling	用于一般化工设备等。 Used for general chemical industry equipment.
06Cr19Ni10 022Cr19Ni10	6~40	1500~2000	4000~8000	GB/T4237-2007 GB/T4238-2007	固溶酸洗 Solution and pickling	主要用于耐点蚀材料。 Used for materials that required good pitting resistance property.
06Cr17Ni12Mo2 （0Cr17Ni12Mo2） 022Cr17Ni12Mo2 （00Cr17Ni14Mo2）	6~40	1500~2000	4000~8000	GB/T4237-2007	固溶酸洗 Solution and pickling	用于抵抗硫酸、磷酸、甲酸、乙酸的设备。 Used for equipments that required for vitriol-resistance, phosphoric acid resistance, formic acid resistance or acetic acid resistance..
06Cr17Ni12Mo2Ti	6~40	1500~2000	4000~8000	GB/T4237-2007	固溶酸洗 Solution and pickling	耐晶间腐蚀性较好部件。 Used for parts with relatively good inter-crystalline corrosion resistance properties.
06Cr18Ni11Ti （0Cr18Ni10Ti）	6~40	1500~2000	4000~8000	GB/T4237-2007	固溶酸洗 Solution and pickling	用于要求耐蚀性好、成型性优良的材料等。 Used for materials that required good anti-corrosion property and good formability.
0Cr18Ni9（封头）	6~20	1600上	4000上	Q/TB3060-2008	固溶酸洗 Solution and pickling	适用于制作罐体封头等。 Used for pot plugs.
1Cr18Ni9Ti(封头)	6~20	1600上	4000上	Q/TB3060-2008	固溶酸洗 Solution and pickling	适用于制作罐体封头等。 Used for pot plugs.

碳钢类 Carbon steel

钢种 Steel grade	牌号 Grade	规格（mm） Specifications		标准 Standard	主要用途 Application
		厚度 Thickness	宽度 Width		
优碳钢 Premium Carbon Steel	STB410	3.0-8.0	900-1320	Q/TB3007-2007	中压锅炉管用钢 Intermediate Pressure Boiler Tube Steel
低合金 Low Alloy	Q345（A.B.C.D）	≥2.5-4.4	900-1800	≤4.0执行GB/T912-1989 >4.0执行GB/T3274-2007	结构用钢 Structural Steel
		>4.4-20.0	900-2130		
耐候钢 Weather Proof Steel	09CuPCrNi-A（Q345GNHL）	≥3.0-7.0	900-1320	TB/T1979-2003	耐大气腐蚀用钢 Atmospheric Corrosion Resistant Steel
		>3.0-12.0	1440-1550		
花纹板 Checkered Plate	H-Q235A(A.B.C)	≥2.35-3.0	900-1250	GB/T3277-1991	一般结构用钢 General Structural Steel
		>3.0-8.0	900-1300		
压力容器用板和锅炉用板 Pressure Vessel Plate and Boiler Plate	Q345R、245R	6.0-20	1000-2000	GB713-2008	中常温压力容器受压元件用 Pressure Parts Steel for Pressure Vessel under Intermediate and Common Temperature
	SA414-G	2.4-6	900-1380	Q/TB3077-2008	

产品应用 >>>

Application

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.

合作伙伴 >>>

Cooperative Partner

中国船舶重工集团公司

中国船舶工业集团公司

中国长江航运集团

中国远洋运输（集团）总公司

杭州东风船舶制造有限公司

烟台来福士海洋工程有限公司

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 Main business department of Co.,Ltd	业务功能 Functions	联系电话 Telephone	E-mail
营销部 Marketing Department	合同管理、订货、异议、投诉受理及出口贸易 Contract and order management Complaint and claim handing Exports business	0351-3014366 0351-3011432 800-806-1998 +86 (0)351-3017169 +86 (0)351-3017525	Zhangwl@tisco.com.cn Tgyhfwk@tisco.com.cn Tggm@tisco.com.cn
技术中心 Technology center	技术咨询服务 Technical consultation service	0351-3012213	Tgjszxbxg@tisco.com.cn

国际分公司联系方式 Contacting manners of international trading Co.,Ltd.

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太钢欧洲有限公司 Taigang Europe Co., Ltd.	德国 Germany	电话（Tel）+49(0)2154-81690	传真（Fax）+049-2154-816911

国内分公司联系方式 Contacting manners of deomestic trading Co.,Ltd

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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. 北京太钢销售有限公司 Beijing TISCO Sales Co. Ltd. 太钢现货销售有限公司 Spot Sales company Ltd. of TISCO 郑州太钢销售有限公司 Zhengzhou TISCO Sales Co. Ltd.	天津 Tianjin 北京 Beijing 太原 Taiyuan 郑州 Zhengzhou	电话（Tel）022-24309105 邮编（Post code）300012 电话（Tel）010-64441368 邮编（Post code）100029 电话（Tel）0351-3090890 邮编（Post code）030003	传真（Fax）022-24309103 传真（Fax）010-64441369 传真（Fax）0351-3090556
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. 哈尔滨太钢销售有限公司 Harbin TISCO Sales Co. Ltd.	沈阳 Shenyang 哈尔滨 Harbin	电话（Tel）024-24232050 邮编（Post code）110016	传真（Fax）024-24231216
太钢华东区销售公司 TISCO sales company in East China	无锡太钢销售有限公司 Wuxi TISCO Sales Co. Ltd. 上海太钢销售有限公司 Shanghai TISCO Sales Co. Ltd. 杭州太钢销售有限公司 Hangzhou TISCO Sales Co. Ltd.	无锡 Wuxi 上海 Shanghai 杭州 Hangzhou	电话（Tel）0510-82407713 邮编（Post code）214011	传真（Fax）0510-82441187
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. 济南太钢销售有限公司 Jinan TISCO Sales Co. Ltd.	青岛 Qingdao 济南 Jinan	电话（Tel）0532-81101947 邮编（Post code）266000	传真（Fax）0532-87734796
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. 长沙太钢销售有限公司 Changsha TISCO Sales Co. Ltd.	武汉 Wuhan 长沙 Changsha	电话（Tel）027-85615300 邮编（Post code）430015	传真（Fax）027-85615311
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. 揭阳太钢销售有限公司 Jieyang TISCO Sales Co. Ltd.	佛山 Foshan 揭阳 Jieyang	电话（Tel）0757-83315711 邮编（Post code）528041	传真（Fax）0757-83315718
太钢西南区销售公司 TISCO sales company in Southwest of China	成都太钢销售有限公司 Chengdu TISCO Sales Co. Ltd. 重庆太钢销售有限公司 Chongqing TISCO Sales Co. Ltd.	成都 Chengdu 重庆 Chongqing	电话（Tel）028-87604342 邮编（Post code）610036	传真（Fax）028-87612940
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 Xi'an	电话（Tel）029-86231507 邮编（Post code）710016	传真（Fax）029-86231506